

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

SEPTEMBER 15, 1954



*Ulmus Carpinifolia Umbraculifera*

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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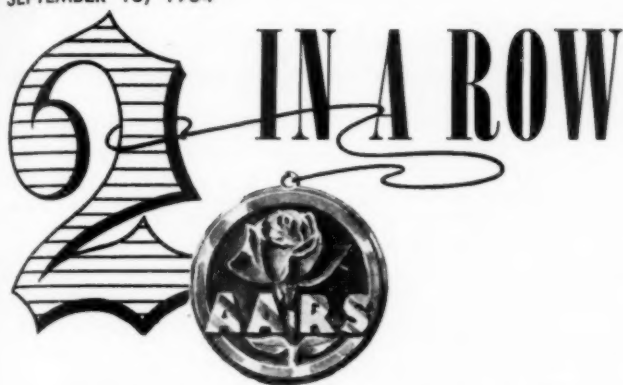
Forms for the October 15 issue will close Friday, October 1.

Mail copy to arrive at Chicago by these dates — no later!

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for Robert V. Lindquist  
of HOWARDS of HEMET

*Tiffany*

**1955 ALL-AMERICA ROSE SELECTIONS AWARD WINNER**

**TIFFANY AND LILIBET WILL BE PRE-SOLD TO MILLIONS!**

These two All-America Rose Selection Winners are certain to be big profit makers for you... here's why! Garden editors of newspapers have to date written better than 38 full pages of editorial about Tiffany and Lilibet roses! In addition, leading home and garden magazines have and will continue to carry full color illustrations and stories about these two winners. This kind of publicity, plus our own full color ads in practically all leading garden magazines is creating a tremendous demand. Stock and watch profits go UP!

Because of the usual shortage of current AARS winners, we suggest you order now while Tiffany and Lilibet plants are still available in No. 1 grade. In other varieties we still have an excellent assortment of No. 1½ grade. No. 1 grades are limited at this time. Eastern shipments PRE-PAID. Write for details.



Here is the hybrid tea that is sure to become the most popular rose of the decade. Tiffany's AARS score nearly topped the highest score on record. Tiffany combines all of the most desirable characteristics demanded of a great rose. Tiffany's deep pink and golden yellow blooms are huge and it is not unusual to see stems 20" to 24" long. Named to honor Tiffany & Co., known the world over for unexcelled quality.



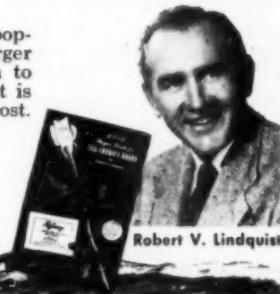
This lovely floribunda has already taken its place as a popular favorite. Lilibet's vigorous growth and beautiful coral pink blooms assure its continuous demand for many years to come. Lilibet has become a national favorite used in mass planting and hedges because it remains green and attractive long into the Fall.

TIFFANY and LILIBET are HOWARDS of HEMET ORIGINATIONS

**1955 BUYERS GUIDE FOR ALL-AMERICA ROSES**

By Robert V. Lindquist

Last year our AARS booklet was so popular we are making a new and larger booklet available to all nurserymen to give to their customers. This booklet is available to all at actual printing cost. Write for details.



Robert V. Lindquist



**HOWARDS OF HEMET • HEMET, CALIFORNIA**

# AMERICAN NURSERYMAN

F. R. KILNER  
Editor and Publisher

KENNETH A. BRENT  
Managing Editor

## Editorial

### INFORMED BUYERS

The current conferences being held by the Federal Trade Commission with members of the nursery industry in regard to setting up fair trade practice rules in this field have shown general support for the undertaking. Some persons, of course, do not like to add to the multiplicity of laws and regulations that already affect business, while others differ with the definitions and phraseology employed in some of the rules. But the results to be gained are expected to do much more than offset any possible disadvantages.

Three results may be expected to come from the adoption of fair trade practice rules affecting plant dealers and shippers. It will serve as an endorsement of the responsible and reputable firms which carry on the greatest part of the business in this field, year after year. It will warn those of somewhat less high standards, so that they will avoid infringement of the rules. It will make it easier to halt the operations of shysters, such as have recently played upon the public for several years before they were brought into a court of law, to be indicted and possibly convicted only after a lengthy trial, the marshaling of many witnesses and a considerable expenditure of time and money by those engaged or interested in the prosecution. The citation by the Federal Trade Commission of a firm found guilty of infringement of an industry's fair trade practice rules receives wide attention and would halt an irresponsible operator far sooner than the lengthy pursuit required by processes of law hitherto.

But the most important benefit to be derived from the adoption of fair trade practice rules by an industry is the fact that the public learns the definitions of quality products, and the reverse, which otherwise are plain only to the commercial element and possibly to the small group of informed buyers, called the advanced amateurs in the gardening field. The definitions and rules which are arrived at by an industry in co-

operation with the FTC are down in black and white, for reference and for quotation. As they are given widespread publicity through garden magazines, newspaper garden columns, trade and amateur organizations and individual efforts, the public cannot fail to become better informed on the merchandise that is bought, and the standards of grades and sizes and quality that are to be expected. An informed buyer is an alert buyer.

The intricacies of plant nomenclature, just as much as the trade's practices as to grade standards, will be recognized by gardeners as important to their success in buying what they want. If fair trade practice rules are set up in cooperation with the Federal Trade Commission, the public will learn more definitely about these phases of their garden purchases. And a well-informed buyer is a better buyer.

### TAX REVISION

Of the legislation enacted by the Congress that recently adjourned, none affects so many citizens as the tax revision bill. Not only does it reduce the taxes to be paid by a great many persons and corporations next year, but it includes a thoroughgoing overhaul of income tax provisions that needed attention. The changes are too many to enumerate or even summarize broadly. Some of the important changes are in definitions and procedures. Every taxpayer should realize that his payments will be affected and, unless he employs an accountant or lawyer to prepare his return or to advise him in that regard, he should undertake to learn the changes that will, or can, affect his pocketbook.

Another act by the late Congress was the extension of social security coverage to a reported 10,000,000 additional persons, the greater portion being either farm operators or self-employed workers. Included will be many nurserymen and other persons engaged in horticultural pursuits.

Along with the increased unemployment compensation benefits voted by Congress, there will be an increase in the tax on many persons in 1955, because the two per cent paid each by the employee and his employer will be applied to the first \$4,200 of income, instead of the first \$3,600 of income as at present.

## The Mirror of the Trade

### COVER PHOTOGRAPHS

On the cover of each issue of the American Nurseryman appears the picture of a woody ornamental plant that is recommended as among the select species for landscape planting. Some shrubs and trees, some of them fairly common, have not been represented because satisfactory photographs have not been available from the sources used.

Some readers may have such photographs, or specimen plants of which excellent photographs may be made. It should be noted that each photograph should show the complete plants—not just a branch or twig of flowers—and should show a specimen typical of the species.

For each photograph used the American Nurseryman will pay liberally. Any not found satisfactory will be promptly returned.

Please write the editor if you can supply photographs of the subjects below, or can have them made—or send along the prints for prompt inspection. Here are the subjects particularly desired:

*Acanthopanax sieboldianus*  
(*Aralia pentaphylla*)  
*Actinidia arguta*  
*Aronia arbutifolia* brilliantissima  
*Callicarpa dichotoma* (purpurea)  
*Clematis tangutica*  
*Clematis texensis*  
*Cornus sanguinea*  
*Cotoneaster dammeri* radicans  
*Cotoneaster dielsiana*  
*Cotoneaster himalayicus*  
*Cotoneaster salicifolia* floccosa  
*Crataegus coccinea*  
*Crataegus cordata*  
*Euonymus nana*  
*Exochorda giraldi* wilsoni  
*Hypericum kalmianum*  
*Hypericum patulum* henryi  
*Ilex pernyi* veitchi  
*Juniperus chinensis* keteleeri  
*Juniperus communis* saxatilis (montana)  
*Juniperus horizontalis* Bar Harbor  
*Juniperus horizontalis* procumbens  
*Juniperus sabina* prostrata hilli  
*Juniperus scopulorum* prostrata  
*Juniperus virginiana* burki  
*Juniperus virginiana* globosa  
*Kalmia latifolia* myrtifolia  
*Ligustrum amurense*  
*Lonicera morrowi*  
*Lonicera spinosa* alberti  
*Lonicera tellmanniana*  
*Mahonia repens*  
*Picea pungens* moerheimi  
*Pinus koraiensis*  
*Pyracantha coccinea* pauciflora  
*Rhamnus davurica*  
*Rhus aromatica* (canadensis)  
*Spiraea bumalda* Anthony Waterer  
*Spiraea bumalda* froebeli  
*Taxus cuspidata* columnaris  
*Taxus cuspidata* intermedia  
*Taxus media* andersoni  
*Taxus media* welleriana  
*Tsuga canadensis* atrovirens  
*Tsuga canadensis* globosa  
*Tsuga canadensis* nana





Personalities at the Texas convention. Left to right, Clark Kidd, Tyler, holding Arp trophy for meritorious service to the nursery industry; Joanne Miller, queen of the Texas rose festival; L. A. (Slick) Dean, Tyler, president of the Texas Rose Festival Association; Mrs. Frank Cornelius, and Frank Cornelius, Houston, retiring president of the Texas Association of Nurserymen, holding the past president's plaque.

## Expanding Texas Group Meets

By George Fisher

The Texas Association of Nurserymen held its second "vacation convention" August 23 to 25 in the Hotel Texas, Fort Worth, repeating the idea of featuring events for the whole family which made the 1953 convention, at Mineral Wells, outstanding. As evidence of the broad family participation, the Junior TANers was organized, with 46 charter members, and wives of the nurserymen enjoyed a busy social program during the three convention days. Total registration was 485.

Unique features of the 1954 meeting included the address of welcome by President J. B. (Bob) Baker, Jr., of the American Association of Nurserymen, to his home town of Fort Worth, and his constant and helpful presence and gracious hospitality throughout the convention.

New officers were elected on the third day of the convention and will carry on the work of the T. A. N. for its second year since it became of age a year ago, when the association was incorporated and employed a full-time executive secretary. Elected were Gene Howard, Howard's Montopolis Nursery, Austin, president; H. Durward Thompson, Corpus Christi, first vice-president, and R. C. Aldridge, Aldridge Nursery, Von Ormy, second vice-president.

Among the most significant busi-

ness conducted by the convention was approval of a code of ethics and of bylaws and constitution revisions. The code of ethics frames, for the guidance of T. A. N. members, a pattern of conduct embodying the highest ideals of business practice. Among the constitution revisions is a provision in article 2 which provides that membership in the association shall consist of four categories—regular, affiliate, associate and honorary. Article 8 provides for dues payment by the active membership on the basis of volume of business done by an individual during a member's previous fiscal year; by associate members at the rate of \$35 per year, and by affiliate members at \$10 per year. No dues will be charged to honorary members.

### Opening Session

The opening session of the T. A. N. convention was called to order by President Frank S. Cornelius on Monday afternoon, August 23, in the Keystone room, and an invocation was given by Oscar S. Gray, Jr., O. S. Gray Nursery, Arlington.

Mr. Baker then welcomed the nurserymen, prefacing his remarks by commending the hosts of the convention, members of the Tarrant county nurserymen's association, for their untiring efforts in preparation for the convention. Mr. Baker spoke of the

excellent industrial, cultural and recreational facilities of Fort Worth, pointing out points of particular interest in the city for the attending nurserymen to see.

The value of a strong trade association was stressed by T. A. N. President Cornelius, who, at this time, made his report to the assembly. He commended his fellow officers, the directors and the committees who shared the administrative responsibilities during the past year.

Bill Collins, the executive secretary, then spoke on some of the accomplishments of the T. A. N. during this period. The group now has more than 300 members, 80 new applicants having been voted in at the board of directors' meeting preceding the convention. He mentioned the informational bulletin program which has been initiated. An average of one bulletin a month has been sent to the members.

The main speaker of the afternoon was Jim Roberts, of the Dallas office of the United States Chamber of Commerce, whose address was entitled "Report to Business." Mr. Roberts presented highly informative data on current business conditions. A poll taken among association members showed the nursery business to be as good or better than it was a year ago.

The assembly was then turned over

to John White, state commissioner of agriculture, who discussed the nursery inspection laws and procedure. He advised the nurserymen that the state department of agriculture will henceforth have 25 to 30 inspectors in the field, including 15 or 16 full-time inspectors, and that when inspections are made, the certificates of inspection will be issued on the spot, a means of avoiding costly delays to nurserymen.

### Report on Research and Education

A report on work of far-reaching importance was delivered by Ralph Ellis Gunn, landscape architect, Houston, who talked on the achievements of the committee on research and education. Mr. Gunn spoke first on the short course held May 31 to June 2. This short course, the most successful of all sessions to date in both attendance and finances, was planned by the committee. After the short course, the committee sent questionnaires to T. A. N. members regarding their reactions to the program and the way it was conducted. Mr. Gunn presented a tabulation of the questionnaire which indicated that an overwhelming majority of the nurserymen liked divided sessions of retailers, growers and wholesalers, and that, of the various parts of the program, those devoted to propagation, selling and sales promotion, consumer research and retail operating costs were most popular. The questionnaire asked for suggestions for future programs, and the responses indicated a desire for information on insects and controls, for wider use of college staff members on the programs and for the provision of more mimeographed material.

The research and education committee, in cooperation with the staff of Texas Agricultural and Mechanical College, College Station, Tex., will soon initiate a quarterly bulletin, Mr. Gunn announced. The bulletin, containing technical information, will be prepared by the college staff and will be distributed to all members of the association by the education committee.

### Personnel Training

Prof. A. F. DeWerth, head of the department of floriculture and landscape design, Texas A. and M. College, then addressed the group on "Training Personnel for the Nursery Industry." Labor, Professor DeWerth stated, is the greatest cost factor in the nursery business. The greatest need in the industry today is for well-trained younger men.

Professor DeWerth explained that

the nursery industry is experiencing an acute shortage of young employees because it does not endeavor to make the nursery business attractive to them either in terms of wages, working conditions or chances for advancement. Salaries in general are too low and advancement too slow, so that young men are being lured to other professions.

The speaker advocated 2-year specialized training for young men who show aptitude, and he told the assemblage that the nurserymen themselves must pick apt young men and see that they obtain the necessary training in the state schools which are initiating training programs along the lines set forth by the American Association of Nurserymen.

In conclusion, Professor DeWerth stated that Texas A. and M. College is now rated among the top five state schools in teaching staff, laboratory and field facilities to train young men for the nursery industry.

### Nurserymen's Meeting Televised

The first part of the afternoon session was photographed by cameras from television station WBAP-TV, Fort Worth, for later presentation on "Texas in Review." The Fort Worth Star Telegram gave the convention excellent publicity, publishing daily

photographs and stories on A. A. N. and T. A. N. officials.

The first afternoon's session ended at 4:30 p. m. to allow commercial exhibitors to prepare their trade exhibits for the first of two public showings. A new policy on trade exhibits was put into practice at this convention. The commercial exhibits, which were staged in the Hotel Texas exhibit hall, directly across the street from the hotel, were closed during all general sessions to allow the exhibitors to attend the meetings and to promote general attendance.

Also, from 5 to 7 p. m. on the first day and 4 to 7 p. m. on the second day the exhibits were open to the general public as an educational feature to acquaint the public better with nursery products and services. During the public showings the Fort Worth nurserymen and landscape contractors served as consultants and guides. All wholesale price lists were removed, and no sales of any kind were made. The exhibits were open to the nurserymen during the rest of the convention, and adequate time was provided for looking and trading outside of general business sessions. Jud Germany, Germany's Nursery, Fort Worth, was chairman of the exhibits.

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## Owen Jailed, Fined \$17,000

James W. Owen, operator of what was termed the nation's biggest mail-order nursery business, on August 25 was fined \$17,000 and sentenced to a year in jail for using the mails to defraud, it was reported by national wire services.

Federal Judge Charles G. Briggie, sitting at Springfield, Ill., denied Owen's motion for probation, declaring the "overriding consideration is the public welfare, and society generally demands more than a fine for this man."

Owen's fine was \$1,000 and costs on each of the 17 counts on which he was convicted.

Defense attorney Arthur M. Fitzgerald had moved for probation because of the Bloomington, Ill., nurseryman's "close-knit" family ties with his wife and three children.

Before the court announced its decision, Assistant United States Attorney Marks Alexander argued for a severe penalty, saying that this was needed to maintain confidence of the people in their government—and to protect free enterprise.

He spoke of 2,500 letters of complaint received by the government from dissatisfied Owen customers.

Through them, he said, ran the theme of questioning that the Post Office Department and other government agencies would tolerate the operation Owen was carrying on.

The indictment charged Owen bilked customers by misrepresenting his stock in ads, sending poor-grade plants and trees to buyers and trying to stall off dissatisfied customers who sought refunds.

Prosecutors contended Owen sent many buyers dead or dying stock and the buyers could not get their money back.

Judge Briggie heard the case without a jury. He took it under advisement July 12, after 23 days of testimony from about 200 persons.

District Attorney John B. Stoddard, Jr., said that in 1952 alone Owen grossed \$3,500,000.

After the sentencing the defense attorney moved for a new trial, and this motion was pending as this issue went to press. He asked for a 60-day stay of execution to allow Owen to pay the fine and "clean up business matters." The judge said it would be granted.

Owen was released on \$3,000 bond previously posted.

# Optimism Keynotes Washington Meet

By M. Blake Smith

Gov. Arthur B. Langlie, of Washington, gave an enthusiastic greeting to nurserymen attending the summer convention of the Washington State Nurserymen's Association, held August 16 and 17 in the Benjamin Franklin hotel, Seattle, and followed it with an inspiring address which was most optimistic about the future of the nursery industry in the state. Governor Langlie pointed out that the average population increase in the state is and has for some years been 60,000 persons per annum, a figure which, it is believed, will be augmented in the future, when natural gas becomes available in the state. Briefly summarized, the points of Governor Langlie's address were these: That new residents need new homes and new homes need landscaping; nurserymen add to the beauty of homes by landscaping them, and this in turn creates additional impetus for population increases, because the beautified homes create in visitors a desire to live in the state.

Inspired by Governor Langlie's high appraisal of the worth and purpose of their work, the attending nurserymen then turned to business matters. First on the agenda was a joint meeting of the state association with chapter 28 of the American Association of Nurserymen, with reports of mutual interest to members

of both the chapter and state groups.

The annual election was held during the convention, and, as a result of the balloting, President W. M. Steward, Maple Valley; Vice-president Larry Krause, Krause Nursery, Spokane, and the secretary-treasurer, Mrs. Stanley Walters, Walters Nursery, Puyallup, were all re-elected to their respective offices. John B. Strander was retained as editor of *Balls & Burlaps*. John Snyder and Harley Mays were elected to 3-year board memberships.

## Address on Selling

President Steward introduced the first speaker, Fred C. Trullinger, president of the Portland Seed Co. Mr. Trullinger pointed out that, with the advent of the 5-day week, gardening has become one of the major American hobbies. If labor succeeds in securing a 4-day week, gardening's popularity will be still further expanded. As it is, he asked the nurserymen pointedly, "Are you getting your share of the business?"

Mr. Trullinger illustrated his points with several compelling diagrams, one of which was pie-shaped and divided into wedges of varying sizes. The right half of the pie represented the basic items of seeds and new plant materials which amount to nearly a billion dollars' worth of business annually in the United

States. The left half of the pie was divided into three wedges representing (1) garden hardware, (2) plant foods and soil conditioners and (3) sprays and dusts. Sales in garden hardware, Mr. Trullinger stated, amount to \$240 million annually; plant food and soil conditioner sales amount to \$290 million annually, and sales of sprays and dusts amount to \$200 million annually.

Having called attention to the enormous sales potential, Mr. Trullinger then discussed measures by which nurserymen could make certain of obtaining their share. He first noted that arrangement of stock in an orderly fashion leads to sales. He recommended self-service merchandising, with open shelves, as in supermarkets. Second, he observed that merchandise should be so arranged that one item suggests another.

As an example of good arrangement, Mr. Trullinger described the use of portable tables, used by one nursery he had visited, to promote sales of fertilizers, pruning shears and similar items out of doors. Near a display of azaleas, camellias and rhododendrons, the nursery had a portable table filled with acid-type fertilizers. A sign explained the advantages of using such fertilizers. Near a shrubbery display was a table of shears and also a selection



New officers and prominent members of the Washington State Nurserymen's Association at the recent meeting. Back row, left to right, Vic Mix, Seattle, named "Man of the Year"; Lenora G. Walters, Puyallup, secretary-treasurer; Winsor Bond, Yakima, director; and Harley Mays, Vancouver, director. Front row, left to right: Vic Mix, Seattle, named Man of the Year; Lenora G. Walters, Puyallup, secretary-treasurer; Winsor Bond, Yakima, director; and Harley Mays, Vancouver, director.



of books giving pruning directions. Once again, a sign was used to point out the need of these items in connection with shrubs.

The speaker reminded the group to keep the windows clean and to change displays often. "If possible," he recommended, "make your window displays tell a story. Put items in the window that go together."

As an example of the storytelling possible in a window display, he suggested placing two flats of soil in the window. One flat would contain the typical problem soil in the nurseryman's district, which customers would immediately recognize. The other flat would contain the same soil mixed with a soil conditioner and made friable. The flats should be properly labeled, and explanatory signs utilized.

Mr. Trullinger stated that following up sales, a matter which calls for careful record keeping, is a profitable venture in itself and also makes for excellent public relations. He suggested that two or three weeks after a sale of grass seeds to a customer, a nurseryman might call and ask how the new lawn is coming. If the customer replies, "It's coming up full of weeds," the nurseryman has an opportunity to explain why this is usually the case and what the customer should do about it.

#### Teach Landscaping Classes

After a coffee break, Harold T. Hopkins, Hopkins Nursery, Bothell, led a panel discussion on the 2-year educational program sponsored by nurserymen in the area encompassing Bothell, Kirkland, Redmond, Kenmore and other communities northeast of Seattle. This program consisted of classes in landscaping for homeowners, which were given without charge through the Bothell school district. Robert E. Tindall, Tindall's Evergreen Nursery; Paul Mortensen, Bonnybrook Nursery, and Ernie Humphrey, Far West Nursery, all of Bothell, were members of the panel.

The educational program itself operated as a panel, it was related, with a speaker first talking on the subject up for discussion. Panel members then asked the speaker questions in order to start audience participation, and shortly afterward class members usually began to take part freely in the discussions.

The educational program brought many benefits. Through the classes the participating nurserymen made new customers. These customers were interested in better material and were more willing than the average customer to pay higher

prices for quality merchandise. The nurserymen found that the classes raised the standards of landscaping appreciation in their communities. It was also observed that pleasant relationships between nurserymen were strengthened by their mutual interest in the educational programs. In some cases, mutual trust and co-operation have replaced standoffishness and suspicion.

The nurserymen who taught the classes learned through teaching, not only about plant materials, but also about public relations. The participating nurserymen received good practice in public speaking and were invited to address other groups. Attention was focused on desirable plant material for the area.

Harold Hopkins then presented for consideration a suggested revision of the nurserymen's guarantee. A placard showing the existing guarantee and the suggested revisions was placed by the speakers' rostrum so that conventioners could examine it and consider the revisions at their leisure.

After luncheon, two panel discussions were featured. L. H. McGuire, Puget Sound Nursery, Tacoma, led the first discussion, on "What Is Expected of the Nurseryman?" Serving

with him on the panel were Cecil Solley, garden editor of the Seattle Times; Dr. John H. Hanley, garden editor of the Seattle Post-Intelligencer, and William Moshier, farm editor of the Seattle Times.

Dr. Hanley stated that customers expect a healthy plant free of pests and diseases, one with a good root system. He stated that customers also have a right to expect from nurserymen detailed information on growing and care of plants bought from them. Names of plants should be accurate.

William Moshier suggested that there are two basic types of customers in a nursery. The first is the plant fancier. He knows plants, knows what he wants. He buys specific material for a planned spot in his garden. He is usually fun to deal with because he can talk the nurseryman's lingo. The trouble is that there are not enough customers like him and his garden area is necessarily limited. A nurseryman can secure repeat business from him, Mr. Moshier continued, only by keeping one step ahead of him and whetting his appetite for new and rare specimen plants.

The second type of customer does not know what he wants. All he

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## Nursery Opens Drive-In Division



A drive-in division is the newest addition to Island Landscape Co., West Palm Beach, Fla. The firm has maintained a 60-acre nursery in the city limits of West Palm Beach since 1928 and over the years discovered that customers did not appreciate the effort that it took to pick out desired plants and shrubs which were scattered over the entire 60 acres. To give quicker and more efficient service, the firm decided to open a drive-in. The new division consists of a small, attractive office building, pictured above, constructed of used brick. A large kidney-shaped roof extends out in the front, under which a patio has been constructed. The sales lot is 100x150 feet and is entirely fenced in. Plants are offered in containers and assorted pots. The containers have been painted with green enamel to make them attractive. Other features of the shop are a circular drive and ample parking space; a demonstration garden to aid customers in selecting material suited for their particular needs, and stocking of a line of fertilizers, insecticides, outdoor furniture and other gardening needs and equipment. Merchandising is primarily by self-service. W. C. Cutler is general manager of the firm, which is owned by Mrs. E. Tinsley Halter, widow of the founder.



# Southerners Meet at Jacksonville

Some 250 nurserymen from 15 southeastern states gathered at Jacksonville, Fla., August 22 to 24 for the annual convention of the Southern Nurserymen's Association.

Although the weather was first hot and then rainy, the conventioners liked their meeting so much that they voted to have a winter trade session every year at Jacksonville. January 23 was set as the date for the 1955 conclave.

Conventions in the past have stressed social events as well as exchange of ideas on running a nursery, but the winter trade meeting will be held to buy and sell nursery stock.

Arthur N. Watson, of Monticello, Fla., now immediate past president, put it this way: "Florida is full of winter visitors, who might like to do a little business on the side." It is planned to arrange attractive exhibits, so that southern stock can be displayed to best advantage.

The summer convention will be continued. Members received an invitation from Asheville, N. C., to meet there next time, and they voted to accept.

## New Officers

New officers elected at the Tuesday morning session of the convention were Hoskins Shadow, Winchester, Tenn., president; George Sawada, Mobile, Ala., vice-president, and A. S. Gresham, Jr., Richmond, Va., secretary-treasurer. Mr. Shadow, who was vice-president during the past year, succeeds Arthur N. Watson, Monticello, Fla., and Mr. Gresham continues in his post.

Serving as members of the board will be Messrs. Watson, Shadow, Sawada and Gresham, and Jack Aichele, Charleston, S. C.; Aubrey Owen, Gay, Ga., and Steve Verhalen, Scottsville, Tex.

The group was divided for the first



Hoskins Shadow, Winchester, Tenn., seated, is the new president of the Southern Nurserymen's Association. George Sawada, Mobile, Ala., standing, left, is the organization's new vice-president, and A. S. Gresham, Jr., Richmond, Va., continues as secretary-treasurer.

time into four chapters: (1) West Virginia, Virginia, Maryland and North Carolina; (2) South Carolina, Georgia and Florida; (3) Kentucky, Tennessee and Alabama, and (4) Mississippi, Louisiana, Arkansas and Texas.

Resolutions adopted by the association included one calling for expansion of federal and state programs for control of insects, particularly the white-fringed beetle. The group joined the American Association of Nurserymen in opposing misleading advertising on the grounds that such practice injures the industry.

The convention opened Sunday evening with registration and a cocktail party in the Grand ballroom of the air-conditioned Roosevelt hotel, meeting headquarters. Business sessions were held in the Floridian room each morning, with Monday afternoon open and Tuesday afternoon spent in visiting local nurseries.

The big banquet and dance was Monday night, when guests heard Fuller Warren, former governor of Florida, invite them to move to Florida, where he said 22 million acres remained uncultivated. He also said that although he had removed Florida's cows from the highways, there still was a job of beautification to be done. Digging back into boyhood memories, he recalled how he had worked in his father's

half-acre nursery, at Blountstown, Fla., "budding orange stock on trifoliata."

In a talk Tuesday morning the nurserymen heard Herman S. Mayeux, of Florida Agricultural Supply Co., describe the latest weed-killing chemicals.

Mr. Mayeux advised that each individual try out the chemicals on small projects, learning just what he can do successfully before attacking weeds in large plantings.

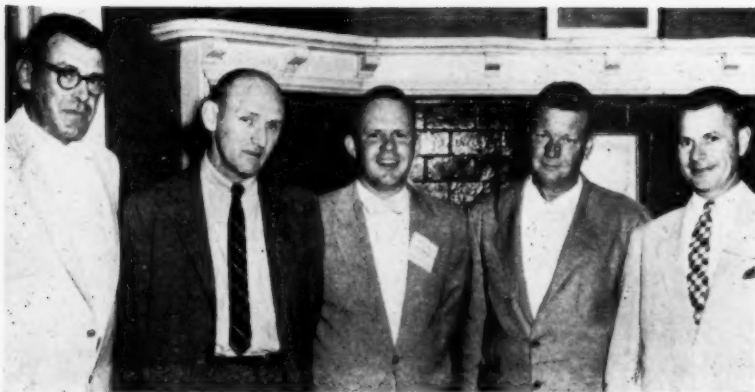
For burning up rough weeds where there are no cultivated plants to be avoided, he advised a contact weed killer. It produces no soil reaction nor contamination. A quart of such an herbicide mixed with 15 gallons of No. 2 Diesel fuel makes a suitable spray. Thirty-five to 70 gallons are used to spray an acre, he said.

Grasses can be attacked with a systemic herbicide, such as maleic hydrazide, using 10 pounds to the acre for suppression of growth and 50 pounds to the acre to kill the grass out entirely.

Such pests as nut grass, wandering jew and wild artichoke yield to sprinkler can application of 2, 4-D and 2, 4, 5-T. The speaker said he had tried it among camellias and found that small amounts on the foliage caused no injury.

He showed films of nursery stock

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Among those attending the summer meeting of the Ohio Nurserymen's Association were, left to right, George Gens, Elyria, O. N. A. president; Howard Kyle, Tipp City, O. N. A. vice-president; Roger Aukeman, South Vienna, O. N. A. secretary-treasurer; Frank Turner, Springfield, O. N. A. convention chairman, and Charles Kohankie, Painesville, summer meeting chairman for the Lake County Nurserymen's Association.

## Ohioans Enjoy 2-Day Outing

*By Marie Brandstaetter*

The Lake County Nurserymen's Association acted as host to approximately 150 nurserymen and their families from various parts of Ohio, at the summer meeting of the Ohio Nurserymen's Association, held August 18 and 19, at Mentor, O.

Plans for this affair were made by Charles Kohankie, of Painesville, O., general chairman, and K. B. Fisher, of Mentor, who was in charge of reservations. They were assisted by William D. Cole, David Dugan, Robert Kallay, Joseph Kern and William Youmans.

Headquarters were set up at Mentor Mansion hotel, where guests registered beginning Wednesday afternoon, August 18. Fortunately, the weather was pleasant, heavy rains a few days before having broken the month-long drought and cooled the atmosphere considerably. Those who came early found a congenial group on hand and spent an enjoyable afternoon visiting with old friends and meeting new members. An executive committee meeting of the Ohio Nurserymen's Association was held later in the afternoon.

In the evening, before dinner was served, K. B. Fisher, the new president of the Lake County association, introduced Mayor Eleanor B. Garfield, of Mentor, who welcomed the guests. Mayor Garfield commented on the pride that Mentor has taken in being in the heart of the section in which the nursery industry plays such an important role. Because of the world-renown Lake county has gained, it can well claim to be the "Garden Spot of America." In clos-

ing, Mayor Garfield made the comparison between industries in larger cities, which deal in material things they manufacture, and the nursery industry, which deals in spiritual things.

George Gens, Ohio Nurserymen's Association president, was present, as were A. W. Marion, director of natural resources, and A. L. Sorensen, director of the division of agriculture, state of Ohio, and Dr. L. C. Chadwick, Ohio State University. Other officers of the Ohio association on hand were Howard Kyle, vice-president; Roger C. Aukeman, secretary-treasurer, and Frank Turner, convention chairman. A ham dinner was served to about 200 persons and afterward the group enjoyed square dancing in the ballroom of the hotel. Bill Leedale, recreation director of Painesville, was the caller, and those who were not familiar with square-dancing terms and steps found his instructions helpful and were able to join in the fun. Beautiful corsages of roses were presented to the wives of officers and to Mayor Garfield.

### Rain Welcome

Thursday morning, August 19, dawned with another rainstorm which, although not conducive to an outdoor fish fry at noon, was nonetheless most welcome to nurserymen in this drought-stricken area. However, by noon the weather had cleared and about 175 persons gathered at Mentor Beach park to enjoy the fresh-caught Lake Erie fish which were being prepared. Salad

and trimmings to make the meal complete were furnished by a local church organization.

The rest of the afternoon was spent in swimming, light sports or just relaxing in the sun. Of course, the wives and daughters took advantage of this opportunity to improve their suntans. The committee thought this outing would find particular favor with those who do not live near a lake and do not have the opportunity to enjoy swimming and sunbathing.

In the evening the group met again for the grand finale of their 2-day gathering. The spacious lawn and garden at Grady's Inn, at Mentor, provided a perfect setting in which the guests could visit and relax before dinner. At 7, chicken dinner was served to about 200 persons and afterward Lew Peck's orchestra played for dancing.

Floral decorations for the tables were furnished by the nurserymen and rose growers of the Lake County association and vases of roses were placed in each of the motel rooms occupied by the conventioners. In addition each lady at the farewell dinner received a rosebud. Havel's Flowers, Bleil's Garden Center and Forrest Pinney, all of Mentor, were in charge of flower arrangements and corsages. Table favors were made by the secretary, Marie Brandstaetter.

### R. H. S. CELEBRATES

The sesquicentennial celebrations of the Royal Horticultural Society this year have been impressive, as would be expected of this organization, which has grown to a membership of more than 45,000 from a group of seven men who met in a London bookshop to found the society in 1804. Its exhibitions, publications, library, trial gardens at Wisley and services to horticulture in various channels have given the society pre-eminence among horticultural bodies of the world, many of whom sent messages or representatives to convey congratulations at a recent banquet which was a highlight of the celebrations. The gardens at Wisley have gradually grown in size and interest through a long period of years until they include over 200 acres in ornamental plants, fruits and vegetables. Over 18,000 queries a year from the society's members alone are answered by the technical staff at Wisley. The periodicals and books published by the society are outstanding in their contributions to horticultural knowledge.

# Warn Propagators to Watch For Sex Reversal in *Taxus*

By Ray Keen and L. C. Chadwick

Nurserymen and others who propagate the various varieties of yew should endeavor to avoid propagating the occasional twigs of the opposite sex which occur on some plants. This may seem unimportant at first, but the yew is normally dioecious, and a change of sex is as great a mutation as a change of foliage or habit of growth.

These sex reverses have been observed over a considerable period of time. The original Dovaston yew, a male tree, had one female branch, according to John Dovaston, son of the man who planted the tree. T. D. Hatfield reported whole seedling plants as well as single branches which reversed their sex. A similar reversal is recorded for one plant in a mixed lot of *T. media hicksi* at Wooster, O. John Vermeulen, who introduced the heavy-fruited Kelsey yew, states that a strongly fastigiate or narrow, upright male mutant is known to sport from this variety occasionally. This, incidentally, is one of the few records of male mutation, which probably occurs as often as the reverse, but the male flowers, figure 1 (top), are much less conspicuous than the seed with its bright red aril.

In the Secret Arboretum of the Ohio agricultural experiment station, Wooster, O., is a large male

plant of the dwarf Japanese yew, *Taxus cuspidata nana*, with one female branch. A smaller plant of the same variety, in the Living Herbarium of *Taxus* there, has two female branches. Four other plants from the same source are entirely male. Plants of either sex are in the trade under this name; however, of five plants received from the same nurseryman under the name *T. c. nana femina*, three are male plants. Older plants of female dwarf Japanese yew seem to lack the foliage density of the male plants. The two branches in figure 2 are from a young plant. Similar female branches occur on one of five male plants of *T. c. intermedia*.

Female twigs or branches were observed on only one plant out of five in the following hybrid, or *T. media*, male clones: *T. media hatfieldi* No. 26, *T. m. wellesleyana*, *T. media* No. 8 and a half-and-half branch illustrated in figure 3 on *T. m. browni*, Brown's Anglojap yew. This female form of *browni* has been propagated in the trade, but it should be discarded, or at least not sold as *browni*, because it is inferior to the male and can be readily recognized from some distance in a sheared hedge. The original plant of this clone is an excurrent conical tree on the Hunnewell estate, at



Fig. 1. At top are male flowers of yew at the time of pollen shedding. Pollen is carried by the wind. Lower picture shows female flowers of yew at time of pollination, March or April.

Wellesley, Mass. It is a seedling grown by T. D. Hatfield and named in honor of Mr. Brown, of the Cottage Gardens, on Long Island.

*Taxus canadensis* is usually monoecious, having flowers of both sexes on the same plant and usually on the same twig.

The following clones have been found to be female wherever they have been growing:

## *Taxus baccata*

- T. b. adpressa*
- T. b. aurea*
- T. b. elegantissima*
- T. b. expansa*
- T. b. fructo-luteo*
- T. b. repanda*
- T. b. washingtoni*

## *Taxus media*

- T. m. cliftoni*
- T. m. hicksi* #1
- T. m. kelseyi*
- T. m. vermeuleni*
- T. m. wardi*

## *Taxus cuspidata*

- T. c. densa*
- T. c. ovata*
- T. c. thayerae*

The following clones are recognized as being male:

## *Taxus baccata*

- T. b. erecta*
- T. b. dovastoni*
- T. b. glauca*
- T. b. nigra*

## *Taxus media*

- T. m. browni*
- T. m. hatfieldi*
- T. m. hicksi* #2
- T. m. wellesleyana*

## *Taxus cuspidata*

- T. c. prostrata*
- T. c. stovekeni*
- T. c. adamsi*

The names of other varieties and



Fig. 2. A male twig (left) and a female twig (right) from a plant of *Taxus cuspidata nana*, growing in the Living Herbarium of *Taxus*, at Wooster, O. Though somewhat rare, such sex reversals explain some of the differences in yew varieties as handled by different nurserymen.





Fig. 3. Twig of *Taxus media brownii* bearing male flowers on the left and seeds and female flowers on the right.

clones will be added to the above lists as the sex of the true types is discovered. Those plants grown from seed or propagated from mixed seedlings, such as *Taxus cuspidata*, *T. media* and *T. hunnewelliana*, cannot be considered as clones and will continue in the trade in both sexes.

The authors are interested in learning of old plants of species and varieties of yew and of any new types. Observations of others on the sex of the different varieties of this group would also be of interest.

#### NEW YORK BOTANIC GARDEN EXPANDS PROGRAM

The educational program of the New York Botanical Garden, Bronx park, New York city, has been expanded to provide afternoon as well as evening sessions, according to a recent announcement. New subjects have been added and established courses revised.

The 1954-55 educational program offers stimulating courses for students of plant life, for homeowners who wish to landscape their properties and for amateur and professional gardeners. Students who complete the required work in the 2-year courses are awarded certificates.

Courses will include such subjects as practical gardening, home landscaping, landscape and flower painting for amateurs, botany, mushroom identification and nature study for teachers.

THE annual outing of the Horticulture Club of Boston was held at East Boxford, Mass., recently.

## First Alabama Course

By Thomas M. Eden, Jr.

An extremely favorable reaction was noted to the first short course for Alabama nurserymen, sponsored by the Alabama Nurserymen's Association and the horticulture department of Alabama Polytechnic Institute and held at Auburn, Ala., August 12 to 14. The enthusiasm of those who attended the course will probably guarantee its repetition next year.

Speakers on the program represented the Alabama Polytechnic Institute and the Alabama experiment station.

Dr. W. G. Eden, professor of entomology, started off the "school" with an interesting talk on the uses and limitations of insecticides in nursery work, mentioning the limitations and characteristics of a number of widely used insecticides.

Among the newer and lesser-known products, Dr. Eden mentioned Diazinon, a new phosphate insecticide which has given excellent control of house flies and shows promise of being effective against a number of insects. He also mentioned Metacide, a combination of Parathion and its dimethyl homologue in the proportion of 1 to 4. This combination was developed in an effort to find a less toxic mixture than Parathion itself.

Wayne Arthur, assistant in entomology, continued the discussion of insects and their control. He told how insects of most types and groups have external characteristics from which field identification can be made with reasonable certainty. Identification of the beneficial as well as the destructive insects is important. It may be difficult to find beneficial insects preying upon destructive ones, but they play an important part in the biological control of harmful pests. Hence, one should be able to recognize insect friends as well as insect enemies.

Beneficial insects are either predators or parasites. Predaceous insects feed upon other insects, devouring them at a single meal. Parasitic insects lay their eggs on or in the host insect and the larvae feed and develop within the host, usually killing it. Among the most common predaceous insects are the ladybird beetles, lace wing flies or aphid lions and syrphid fly larvae.

One of Mr. Arthur's most important points was his emphasis on

thorough coverage of infested plants with a spray in order to control effectively insect damage to ornamental plants. It is also important, he stated, to time the insecticidal application to coincide with emergence of the insects and to observe the cautions listed by the manufacturer before using the organic insecticides.

#### Weed Control Research

Dr. Ray Self, plant pathologist, and V. S. Searcy, assistant agronomist, talked on weed control research on ornamentals. They said that the principle of chemical weed control in the field is to kill all of the young weeds and grass in a narrow band of row and then not plow any more seeds into this band. By leaving the row alone, those undisturbed seeds an inch or so below the surface do not readily germinate. Therefore, after the first few applications the time interval between treatments can be lengthened. The type of weed killer used must be toxic to young weeds and grass, yet not be toxic to the bark or roots of the ornamental crop.

Preliminary trials on weed control in nursery beds indicated that potassium cyanate, Good-Rite N.I.X., and Alanap-1 at rates necessary for weed control are too toxic to the ornamental plants. Chloro IPC was somewhat more promising, but it was also slightly toxic. These weed killers as well as Crag Herbicide 1 are residual-type materials and may not react the same on different soil types.

Weed control has been obtained with both 10 gallons of cotton herbicidal oil and 10 pounds of potassium cyanate per acre per application. Under one set of conditions, weaknesses of both materials have been found and further work is needed to determine the best way to use these materials and the species on which they can be used safely. Several other herbicides also show promise but many details must be worked out before recommendations can be made.

A fine time was had by everyone at the social given at the conclusion of the first day, at the Chicken House, Opelika, Ala., by T. C. King, King's Nursery, Auburn. The food was delicious and the whole evening was thoroughly enjoyed by all.

The nurserymen and landscape



gardeners seemed to be anxious for another day of school because Dr. James Ferry, associate professor of botany, had many questions to answer on his talk, "Environmental Factors Affecting Plant Growth." Dr. Ferry stated that the correct interpretation of all activities of plants requires that each activity be carefully analyzed on the basis of cause and effect. A few fundamental facts should be put to work in explaining some problems concerned with the growth of plants.

First, what a plant is and what it does depends chiefly upon two things, namely, heredity and environment, conditions within and outside the plant which influence the plant's activity.

Second, although plants do not have brains, they are definitely living, dynamic entities capable of many remarkable processes.

The third fact which should be recognized is that only plants which contain chlorophyll can make their own food; that plants do not obtain their food from the air or soil or water, but rather plants obtain minerals and carbon dioxide and water from the environment and these are combined within the plant in the making of food.

The roots and underground stems of troublesome weeds, such as dandelion and thistle, will die of starvation if the green tops are removed frequently and immediately after they begin to develop, or if they are densely shaded by another plant such as alfalfa. When the green tops are removed, photosynthesis (food manufacture) ceases. The roots are therefore cut off from food because the roots are dependent upon the green tops for food and cannot obtain food from the soil or air or water.

Many persons remove the leaves from cuttings. It has been shown that the new roots will appear sooner, be more abundant and grow more rapidly if some of the leaves which are capable of staying turgid are not removed.

#### Greenhouse Management Discussed

Next on the program was a talk by Dr. Tok Furuta, who discussed the fundamentals of greenhouse management. Dr. Furuta brought out that management of the greenhouse begins before the greenhouse is built. If the site is carefully selected and the building well constructed, the problems one will encounter will be greatly decreased. The cheapest initial investment usu-

(Continued on page 82)



At the Iowa Nurserymen's Association summer meeting Arnold Webster (seated on tractor) explains features of narrow-gauge cultivator to Clyde Heard, Don Moffet, Bill Jordan and Leroy Meyers.

## Iowans Tour Nurseries

By Dean Platt

At the annual summer meeting of the Iowa Nurserymen's Association, held August 25 and 26 at Waterloo, Ia., a tour of nearby nurseries proved to be the program highlight. More than 80 nurserymen went on the tour.

During the visit to Meyers Nursery, Waterloo, Ia., Charles Meyers displayed a dwarf *Spiraea vanhouttei*, which is 11 years old and only two and one-half feet tall. This plant aroused much interest because of its dwarf habit of growth and the extreme density of both its branching and foliage. Mr. Meyers told the group that he had discovered this variety in a group of seedlings 15 years ago. At the time the parent plant was 4 or 5 years old and was slightly more than two feet tall. In an effort to verify his hopes regarding this plant, Mr. Meyers has since propagated 200; each has retained the dwarf habit and desirable characteristics of the parent. The blooms are a little larger and the individual florets seem to be a little larger than those of the regular *Spiraea vanhouttei*. Mr. Meyers is planning to secure the necessary patent rights and will, within the next few years, attempt to offer his discovery to the trade.

Another of the nurseries visited was Westphal Nurseries, Cedar Falls, now owned by Bill Jordan. Here

the touring nurserymen were shown a most excellent basement storage unit for the retail nursery, where a wide assortment of shrubs, trees and flowers can be stored without damage by cold winter weather or warm spring days.

At Kuehn's Nursery, Cedar Falls, the nurserymen were shown an old tractor, which had been elevated to afford a 4-foot clearance. This conversion made an efficient and most worth-while piece of equipment for digging operations in the small nursery. The nurserymen were also shown a narrow-gauge cultivator tractor 28 inches in width, which could not only be used to advantage for cultivating narrow rows, but could also be ridden.

At Platt's Nursery, Waterloo, the nurserymen examined a plot of Meyers Z-52 *Zoysia japonica* and were greatly impressed by its rapid development. In slightly more than two months' time, plugs set in rows three feet apart and spaced at 1-foot intervals had almost grown together. Dean Platt explained that, although the growth beneath the irrigation system was considerably more rapid than that observed in rows not reached by water, all parts of the planting did remain green throughout the extremely hot summer experienced this season.

(Continued on page 74)

# Biggest Maryland Meeting

By E. Sam Hemming

Over 300 nurserymen, wives, children and friends attended the summer meeting of the Maryland Nurserymen's Association, held August 19, at Westminster. Westminster Nurseries and Carroll Gardens were hosts to the largest Maryland meeting ever held.

The members met and registered at the new offices of the Westminster Nurseries, located on Highway 140, where the three Stoner brothers, Harold, Willard and Dave, did the welcoming. The new brick office containing reception room and individual offices is located on a rise easily seen from the highway and fronting the main nursery property. It is nicely landscaped and affords ample parking space for cars of visitors.

## Nursery Tours

As is the usual custom, the association's summer meeting was devoted to fellowship and visiting, there being no business transacted. Five large buses were made available for transporting the members over the two nurseries. The morning tour was devoted to Carroll Gardens. Patsy Donofrio and his son John showed the nurserymen over his Baltimore boulevard property and the home office garden and grounds. Carroll Gardens is now one of the country's leading mail-order houses in perennials. The nursery had a fine stand of young perennials, most of them lined out this spring and summer. The plants, in spite of the serious drought, were thriving because of the excellent care they were receiving.

The members next visited the home office, gardens, greenhouses and packing shed. Near the office is a fine display garden, which was colorful even in mid-August. Attracting particular attention were hibiscus and a new verbena, Flame, that is hardy for the Maryland area. Adjoining the display garden is an attractive rock garden with a water lily pool.

The buses then took the conventioners to the Westminster Riding Club, where a delicious buffet luncheon was served with the three Mesdames Stoner and Mrs. John Donofrio acting as hostesses. After the luncheon President Carl Orndorff made a few remarks of welcome and thanked the Stoners and

the Donofrios for their hospitality. He then called on Dr. George Langford, who acted as toastmaster and in turn introduced visiting nurserymen from other states and local notable guests. He introduced Dr. T. B. Symons, long time friend of Maryland nurserymen and now president protem of the University of Maryland, who commented on the growth of the association and gave some words of friendly advice.

After the luncheon the group was taken by buses back to the Westminster Nurseries for a tour of their 400 to 500 acres of nursery stock. The ladies and children were invited to spend the afternoon at Dan Stoner's new home and swimming pool, a welcome haven on the hot afternoon.

The Stoners have made fine progress in their program of expansion since the war, having built their new office and propagated and lined out acres of evergreens and flowering shrubs. They have about given up their landscape business, devoting

nearly all their energies to the wholesale end.

The idea of touring the nursery by bus was a novel one, and it must be admitted that the driving of those large highway buses over nursery roads and around right angle turns was a novel experience both for the nurserymen and for the drivers.

During the drive through the nursery, which is located on rolling land on each side of Highway 140, the nurserymen saw many blocks of yew, arborvitae, spruce and broad-leaved evergreens well cultivated and in fine condition in spite of the dry weather. At the greenhouse and frame area were seen fine beds of azaleas, rhododendrons and quantities of cuttings and potted liners. While the nurserymen were at the greenhouses the hot afternoon was relieved by a brief but fairly severe thunderstorm, the rain from which was welcome to all the nursery operators. On the way home traffic was blocked at Westminster by a number of trees that had blown down.

In the evening the members and guests who could stay were entertained at a barbecue and dance at the Westminster Riding Club.

## Educational New York Meet

By A. M. S. Pridham

A well-attended meeting of the New York State Nurserymen's Association took place August 25 and 26, the first day at Cornell University, Ithaca, N. Y., and the second day at New York state agricultural experiment station, Geneva. Attendance exceeded 100 persons, including many visitors from nearby eastern states. Among the visitors was Richard P. White, executive secretary of the American Association of Nurserymen.

The morning session began actively with a tour formed by Dr. A. M. S. Pridham, professor of nursery management, Cornell. The group visited the new agricultural library, in which Bailey Hortorium is housed, and viewed other facilities of the new building. Apparatus called a heliodon, designed by Prof. F. W. Edmonson, Jr., Cornell college of architecture, was demonstrated. By means of a movable spotlight, it indicates the sun's position at any hour of the day during the year. This makes possible rapid and graphic illustration of shadows from build-

ings or from trees and enables planning of maximum climate control as related to the sun's position at critical times.

## Mist Propagation Research

Charles E. Hess, a graduate student and a recent recipient of the Commercial Enterprises of Newark, N. Y., Inc., fellowship, explained why mist technique is more successful than the commercial sweatbox method of rooting cuttings. He stated that experiments have resulted in 92 per cent rooting of pink dogwood cuttings with the mist method, as compared with 60 per cent rooting with the standard sweatbox method.

He told the group that research is based upon the study of how the factors of water, temperature and light differ under the two methods of rooting and how the cuttings respond to these differences. One of the most apparent differences between the mist technique and the sweatbox method of rooting cuttings

[Continued on page 60]

## Using Polyethylene

# Handling and Packaging Perennials For Shipment

By John P. Mablstede

Iowa State College

It is a pleasant experience for a prospective customer to sit down and page through a nursery catalog or meander through a nursery salesyard. In so doing it usually is the perennial section, with its wide variety of types and colors, that catches his eye. Because of the comparatively low cost of this line, perennials are often included in a first contact sale.

Therefore, for the nurseryman who handles a complete line of stock, either on a local retail basis or through mail-order catalogs, the perennial phase of the business is most important. Because the nurseryman is interested in future sales, he is most concerned with seeing that the prospective customer, even though he may only be buying a few plants to put out around a small home, is supplied with well-grown stock which has been properly handled and transported to him without undue loss of quality.

The problem of handling and packaging nursery stock of the perennial type begins in the fall, at the time of digging. Until recently perennial material which was to be distributed to markets in the spring of the year has been held in heavily mulched coldframes, or in heeling-in boxes containing moist peat, sand or sphagnum moss and located in common storage units. By following this procedure the operator could ship early in the season without risking the hazards of digging during a time when the ground may be frozen or sticky.

However, this general method of handling stock often resulted in serious losses which were brought about by rot-causing organisms or sudden temperature changes. In addition, if plants being stored in outdoor coldframes were allowed to remain in the beds for any extended period of time, normal growth soon developed, which added to the difficulty of handling and packaging.

### Refrigerated Storage

The recent application of the freezing storage as a method of holding perennials has greatly improved handling and packaging techniques

for this type of plant material. The general procedure as described by Ted Sjuln, Inter-State Nurseries, Hamburg, Ia., is a good example of the ingenuity and concern that nurserymen exhibit while continually improving the methods of handling and general quality of plant materials reaching the public.

With the use of this procedure, the perennial material is dug in the fall of the year, after growth has ceased and the plant has become dormant. If an extensive wet spell prohibits the lifting of plants during a period when the soil is in good condition, the material should be spread out on tables or tarps in a common storage cellar in order to allow leaf and root surfaces to lose excess moisture. The perennials are then packed in common orange crates, which have been previously lined with waxed or nursery paper. As the two longitudinal layers are built up from the bottom of the crate, with the roots protruding toward the center of the box, slightly damp packing is placed around the crowns and roots. After the crate has become filled, the lining is doubled over the top of the box, the unit wired shut and immediately placed in storage.

An important point at this stage should be noted, namely that immediately after the crate has been placed in storage, the temperature should be lowered to around 25 to 26 degrees Fahrenheit in order to remove the field heat as quickly as possible. In so doing the operator insures rapid, uniform cooling of all plants within the container and consequently re-

[Continued on page 92]

### THE POLYETHYLENE-KRAFT PACKAGING SEQUENCE FOR PERENNIALS

(Pictures at right)

1. Assembling and tying an order of 10 delphinium plants for packaging. Note that the tie is around the base of the crown.
2. Placing the plants in an open, 11/2-mil. polyethylene bag.
3. Wrapping the entire order in 60-pound kraft paper for added protection.
4. Affixing the combination shipping-nursery inspection tag to the completed package. Note that the tops are allowed to remain open for this type of material which is just beginning to force.



1.



2.



3.



4.





T. A. Mitchell, left, retired nurseryman, of Oyster Point, Va., receives honorary life membership in the Virginia Nurserymen's Association. The presentation was made at the Virginia group's summer meeting by John O. Williams, J. O. Williams Nursery, Richmond, Va.

## Virginia Meets at Seashore

By E. M. Quillen

The famous Chamberlain hotel, at Old Point Comfort, Va.—flanked on three sides by Chesapeake bay and Hampton roads—served as the summer meeting place for some 100 Virginia nurserymen, families and guests, August 15 to 17.

Taking advantage of good fishing grounds, many points of interest in the area and refreshing breezes from the extensive water frontage, the convention program was designed to dispense fellowship and recreation, rather than plant culture and merchandising. However, the forenoon of the 17th was devoted strictly to business.

The convention opened Sunday evening, August 15, with a cocktail hour and buffet dinner, after which association President Charles H. Kennedy briefly addressed the group and then presented Mrs. Elizabeth C. Loving, executive secretary of the "Plant Virginia" committee, who outlined steps being taken to set up and activate the state planting program.

The speaker pointed out that every citizen of the state stands to profit from such a program, and particularly the nurserymen. She called upon the nurserymen to give the program their wholehearted support in terms of time and effort. She announced plans to distribute litera-

ture relative to the organization and setting up of local planting committees to nurserymen and others interested in the planting program.

### Business Session

At the business session, E. M. Quillen was elected for a 3-year term as a member of the Virginia agricultural conference board, representing ornamental horticulture. In accepting the appointment, Mr. Quillen spoke of his experiences as a member of the budget committee of Virginia Polytechnic Institute and of the difficulty that had been experienced in obtaining sufficient state appropriations to properly operate the department of ornamental horticulture at the institute. Some progress in this direction was reported by Mr. Quillen, but he added that there was much yet to be done and he called for a greater effort on the part of Virginia nurserymen and others interested in ornamental horticulture in seeking the necessary appropriations.

Following Mr. Quillen's talk, it was pointed out from the floor that many legislators have a tendency to look upon ornamental horticulture as a luxury field, not deserving of the same consideration as other branches of agriculture. It was suggested, therefore, that the term "ornamental

horticulture" be changed to "landscape horticulture" when dealing with state officials. It was pointed out that the term would be accurate, since landscaping is an important part of the business and it would also eliminate the word "ornamental."

Dr. Wesley P. Judkins, head of the department of horticulture at V. P. I., spoke on the work being done in his department and described his future needs. He, too, expressed disappointment at the insufficient state appropriations and called on the nurserymen to assist in obtaining more state funds in the future.

### Group Advertising

Group advertising was discussed at length by W. B. Higgs, Vadma Nursery Agency, Fairfax, Va. Members of the Virginia Nurserymen's Association in the northern part of the state have found it most profitable to advertise in groups, listing the names of all the participants in a common advertisement. Group advertising allows the purchase of larger space, and, all in all, the program has been found to be most successful and was recommended to other nurserymen.

The proposed fair trade practice rules were discussed by members of the Virginia association and a special committee was appointed to study the rules, attend the conference with the Federal Trade Commission at New York and offer any amendments found advisable.

T. A. Mitchell was presented with a certificate of honorary life membership with the good wishes of the association for continued health and happiness. Mr. Mitchell is 84 years old and recently retired from the nursery business at Oyster Point, Va.

The committee for revising the bylaws presented a draft of the proposed new bylaws for the consideration of the membership. Action will be taken on these new bylaws at the forthcoming winter meeting.

On Monday morning, August 16, a fishing trip in the lower Chesapeake bay was enjoyed by some of the group, and in the afternoon the nurserymen cruised Hampton roads to the mouth of the James river and inspected the Newport News Shipbuilding & Drydock Co. from the river. The cruise continued to the Norfolk naval base and then back to the hotel. Some of the fishermen remained with that sport all day, not reporting back to the hotel until late at night. There were conflicting reports, as is customary after a fish-

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# Top-Grafting Technique Uses Plastics

By Victor J. McNitt

A new technique for top-grafting, or top-working trees has passed the experimental stage and is, in the author's opinion, now ready for application.

Experimentation with this technique was started by the author in 1948 and since that time the results obtained have been so outstanding that the method should soon displace those currently in use. The extreme simplicity of the technique renders it employable by everyone, including the novice; the work and attention involved is almost negligible; the cost of materials is but a few pennies, and the materials can be used over and over.

Plants which are commonly considered as extremely difficult to handle respond readily to this technique, and the author has successfully applied it to two rare larches, which others report will not respond to any common method of propagation. In the past, these difficult plants had to be handled with the technique known as inarching or approach-grafting, which is an extremely exasperating process requiring almost constant attention to prevent damage or destruction from wind movement, drying of the stock, etc. Because of the great difficulty with which inarching is applied, those choice plants which required this treatment have practically gone out of existence and are now found only in unusual collections. This is indeed unfortunate, as some of our choicest and most unusual plants are in this difficult - to - propagate class.

## Application Simple

The application of this new technique is simplicity itself. First we must have a stock plant, and the general rules governing selection of stock plants for grafting are observed, except that with this method the stock can be of any size. That is, the operation can be applied to any plant from a seedling of workable

size to plants many years old. This is because the operation involves only the leading or main shoot of the plant. The balance of the plant remains untouched and unaffected until the operation is completed. Therefore, in the event that the operation is a failure (which is rare) the plant is in no way injured and it can be reworked later.

The selection of a large stock enables the creation of unusual and artistic effects in the landscape where there is a desire to develop a graceful or picturesque specimen. This is where this new technique will fill a great need. By elevating prostrate forms of trees known as weepers, we can produce extremely graceful fountain effects. This is accomplished by top-grafting a scion of the prostrate form at the desired height of an upright stock plant. The growth on such scions is immediately downward, which gives unusual and varying effects.

A renowned horticulturist of the past described one of his larches of this type as his vernal fountain of perpetual joy. Unfortunately this particular larch was almost impossible to propagate, and except for the young graft which the author has successfully started there is only one known specimen planting remaining, it being probably more than a century old. This specimen possesses unusual long recurved foliage unlike any other larch. This foliage is of a magnificent silvery blue color unsurpassed by the best color varieties of Colorado blue spruce. The true classification of this larch may never

be known, as it has never been known to produce cones, and its characteristics do not satisfactorily coincide with any known larch.

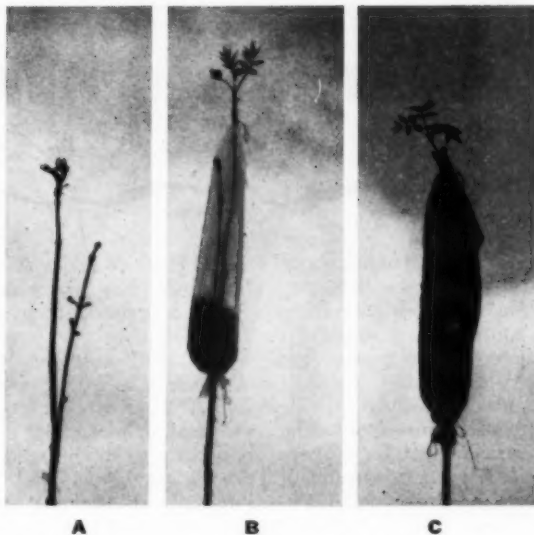
## The Scion

To return to our propagation, after we have decided what effect we desire and have thus decided where to make our graft (set the scion), our next problem is to select the scion. As in any grafting, our scion should be selected from as healthy and as vigorous wood as possible. However, in cases when the wood is limited or the plant is rare, anything available may be used. The author has produced perfect specimens with this method from a tiny sliver containing a single bud.

The scion should be set in the leading shoot (main stalk) of the plant as the most vigorous flow of sap is concentrated here. The veneer or side graft is employed, and the scion is set low enough so that the plastic film can be secured to the main shoot above the scion's top (see illustration A, above). The union should be bound with plastic grafting tape, as this, because of its gas-permeability, will not bind, deteriorate nor suffocate the tissues at the union. No wax of any kind is used in this operation. This completes the first step.

The second step consists of drawing on a plastic tube or sleeve of .002-inch polyethylene film, which is sufficiently long to secure below the union and extend above the scion to secure at the top (see illustration

[Continued on page 63]



The three steps in top-grafting with plastics. Left, the graft itself; center, polyethylene tube affixed; right, muslin tube in place. In this sequence, white ash is being top-grafted to European weeping ash.



## PLANT NOTES HERE AND THERE

By C. W. Wood

*Dicentra*, of which there are about 15 species described by botanists, though gardeners seldom have more than three, contains some important garden plants. Gardeners are missing one of the best of the race, when, for instance, they confine themselves to the common bleeding heart, *Dicentra spectabilis*. There is a little one, *Dicentra oregana* of botanists, from the Pacific northwest, that has definite claims on every lover of the beautiful. Imagine a 6 to 8-inch plant made up of finely divided leaves, beautifully silvered, and spikes of creamy flowers, tipped deep pink to purplish, from June to September, and you will have an adequate mental picture of the plant.

Unlike many beauties, it is easy to manage in eastern gardens, especially if the gardener remembers to shield the fat rhizomes from burning, midday sun. Western collectors seeing the plants growing on sunny mountain slopes have spread the word to give it full sun in the garden, presumably in the midwest and east. Actually, sunshine seems to be good for it so long as the roots are shielded from the heat, as with a low ground cover to shield the rhizome or when covered by a rock. It is then likely to be long-lived, if the soil is well-drained. So far as I have investigated, it is best propagated by division in early spring — March or or April here in northern Michigan.

### Blue-Eyed Mary

When a letter came one morning asking for a note on blue-eyed Mary, I was sure that I had written on it during the past few months, but as I cannot locate anything in the file on that plant, a brief note is included here.

Some gardeners are so sentimental about the flowers that were favorites in grandmother's garden that they grow them even if the plants possess little merit as ornaments in the modern garden. Such gardeners are particularly fortunate when they find an old favorite which adds, at the same time, a certain charm and beauty not obtainable in any other plant. *Omphalodes verna* (blue-eyed Mary to some, and creeping forget-me-not to others) is both

an old favorite and a thing of beauty, which has, unfortunately, become altogether rare in gardens.

It is a plant for part shade in a woody soil, preferably among porous rocks to afford it a cool root run. In that kind of a situation (that is the ideal, of course, but not absolutely necessary), it will send out stolons in all directions and cover the ground with the cool green of its leafage. In April it sends up slender stems to a height of six inches, more or less, carrying forget-me-not flow-

ers of the loveliest blue imaginable. It may be multiplied rapidly by division.

### A Small Heron's-Bill

*Erodium reichardi* roseum, which was formerly known as *E. chamaedryoides* roseum, is a big name for so small a plant. I cannot make up my mind which name I prefer, although I was raised on the latter and it brings up many a vision of beauty. But it does not make any difference which I prefer, for the oracle has

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Top size—13 cm. and up

	Per 1000
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Allbright—Bright red, 24 ins.	38.00
Bartigon—Crimson-red, 24 ins.	38.00
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Clara Butt—Appleblossom-pink, 26 ins.	38.00
Charles Needham—Extra scarlet, 28 ins.	55.00
Cordell Hull—Red with white stripes.	50.00
Farncombe Sanders—Rose-scarlet, 28 ins.	38.00
Pride of Haarlem—Large red, 28 ins.	38.00
Princess Elizabeth—Rose pink, 26 ins.	40.00
Prunus—Salmon-pink, 24 ins.	38.00
Queen of Night—Black, 28 ins.	38.00
Red Pitt—Scarlet, good forcer, 26 ins.	42.00
Sunkist—Golden-yellow, 26 ins.	42.00
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Albino—Pure white, 22 ins.	\$42.00
Carrara—Purest white, 24 ins.	40.00
Dido—Orange-red with orange edge, 28 ins.	40.00
Golden Harvest—Pure, large yellow.	38.00
Marjorie Bowen—Soft salmon-rose, 28 ins.	40.00
Mothers Day—Pale yellow, 28 ins.	38.00
Mrs. Moon—Lily-flowering, fine yellow.	42.00
Princess Margaret Rose—Yellow, red edge.	38.00
Pride of Holland—Yellow, bright red border.	42.00
Rainbow—Fine Mixture.	36.00

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L'Innocence, pure white
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	Per 100
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	Per 1000
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Golden Harvest—Yellow	\$28.00	\$18.00	\$10.00
H. C. Van Vliet—Blue	28.00	18.00	10.00
Imperator—Deep blue	25.00	16.00	10.00
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	Per 1000
Electra—Wine-red	\$46.00
Mr. van der Hoef—Yellow.	46.00
Orange Nassau—Orange.	46.00
Peachblossom—Deep pink.	46.00

### Parrot Tulips

	Per 1000
Top Size 13 cm. and up	
Blue Parrot—Heliotropes.	\$50.00
Fantasy—Clear pink with green stripes.	40.00
Orange Favorite—Deep fragrant.	38.00
Therese—Cherry-red (strong).	50.00
Red Champion—Immense, fiery red.	60.00
Sunshine—Golden-yellow.	60.00

### Triumph Tulips

	Per 1000
Top size 13 cm. and up	
Alberio—Bright red, with orange.	\$38.00
Bandoeng—Mahogany-red, yellow edge.	40.00
Crater—Deep crimson-red.	42.00
Crown Imperial—Crimson-red with yellow border.	42.00
Edith Eddy—Red with white border.	42.00
Elisabeth Evers—Dark rose.	50.00
Elmus—Scarlet, creamy-white edge.	45.00
Kansas—Pure white.	40.00
Rhineland—Orange-yellow.	38.00
Telescopium—Violet.	40.00
Ursa Minor—Golden-yellow.	50.00

### Botanical Tulips

	Per 1000
Red Emperor—Extra large, scarlet.	\$75.00
Eichleri—Crimson-scarlet.	38.00

## DAFFODILS

	Per 1000
Heavy Mother Bulbs	
Rembrandt—Large yellow—Imp. K.A.	\$80.00
King Alfred—Best yellow, frilled.	80.00
Carlton—Large open cup.	75.00
Golden Harvest—Very large yellow.	100.00
Mrs. E. M. Krelage—White, creamy trumpet.	80.00
Imperator—Large, pure white.	105.00
Mixture for Naturalizing—D. N. and Round	50.00

## CROCUS

	Per 1000
	9 to 10 cm. 8 to 9 cm.
Purpureus Grandiflorus—	
Large purple	\$22.00 \$18.00
Mont Blanc—Pure white.	34.00 22.00
King of the Striped—White lilac.	28.00 22.00
Mammoth Yellow—Golden-yellow.	38.00 30.00
Mixture—All colors	26.00 22.00

spoken. As I was saying, either is a big name for so small a plant, but the plant is a treasure to its possessor, especially if he lives in one of the warmer sections of the nation. Some plants are able to give flowers of uncertain beauty over a long period; a few others are able to produce beautiful blooms over an equally long time.

Of the latter, the present plant is so endowed that it is able to give beauty from May to October. One could scarcely expect more from any plant. Coupled with its ease of culture is more than ordinary garden merit. Although it comes from Corsica, the home of many good plants that are too tender for our northern winters, it is hardy, standing most of our winters in protected places if the snow comes early and stays late. It would probably be advisable, however, for those who live north of the latitude of St. Louis, to give it a sheltered position. Good drainage and protection from low temperatures are about all that it needs. Then it should spread into broad mats of pretty, glossy foliage, over which bright pink heron's-bill flowers with deeper pink veins will appear all summer.

This plant may be propagated from fresh cuttings with a little old wood at the base. We had best results from gently forced plants in late winter or early spring which were rooted in heat.

### Viola Jooi

A request came recently for a note on Viola govi, asking especially for a report on its possible sales potential in a neighborhood nursery. I shall report on the plant as it behaved here years ago and let the inquirer and other interested readers make their own deductions.

The reason that the name V. jooi heads the note is that I suspect it is the correct name for this violet; at least it appears to be so from European literature. Be that as it may, it proved to be one of the better violets in our trials, being easy in almost any sunny or half-shady spot that is not desert dry.

It makes a tuft of small, cordate leaves on petioles two to three inches long, the entire plant being smothered beneath a blanket of slightly fragrant rosy-lavender (more rosy than lavender) violets for close to two months in spring. Spring seedlings and old plants divided as soon as the spring blooming season is over usually give a month of bloom in late autumn, which makes a long



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PRICE PER M	VB-10	3.70	4.00	4.55	5.05	6.00	6.90	9.00	11.25
	VB-D	3.85	4.15	4.65	5.35	6.05	7.05	9.25	11.60
	VB-H		5.45	5.80	6.90	7.65	8.50	10.45	12.90
VITA- BAND 10	QUANTITY PER CASE	2M	2M	2M	2M	2M	1M	500	500
	WEIGHT PER CASE	31 LBS	36 LBS	40 LBS	48 LBS	59 LBS	35 LBS	23 LBS	31 LBS
VITA- BAND D	QUANTITY PER CASE	2M	2M	2M	2M	2M	1M	1M	1M
	WEIGHT PER CASE	21 LBS	24 LBS	27 LBS	32 LBS	41 LBS	24 LBS	32 LBS	42 LBS
VITA- BAND H	QUANTITY PER CASE		1M	1M	1M	500	500	500	500
	WEIGHT PER CASE		28 LBS	32 LBS	39 LBS	24 LBS	28 LBS	37 LBS	49 LBS

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<b>Idesia polycarpa</b> .....	<b>25.00</b>
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period of color for a plant that is so small.

I think that I now know why *Anthemis sancti-johannis* did not live up to the picture that I built up for it in this column several years ago when I first brought it to the attention of American gardeners. I have suspected it right along when catalogs described it as yellow-flowered; now I have seen what I take to be a form of *A. tinctoria* in at least two nurseries under label of *sancti-johannis*. No wonder the plant which I had in mind never received a good start, since a somewhat poor form of *tinctoria* has been foisted on our gardeners under its label. I still maintain that gardeners would embrace the true *Anthemis sancti-johannis* with joy if it were offered to them.

The available literature does not make it plain where our plant came from, though I faintly remember that someone wrote years ago that it was a native of Bulgaria. And I do not find it described in any of the floras at hand. There must have been at least three plants in the trade under this name—one, a pure yellow on the order of *tinctoria*; another, an 18-inch plant which bloomed itself to death when it produced an incredible number of large, orange daisies during its second year, and still another that I saw in the east several years ago which made a compact growth of about a foot and produced rather small heads of bright orange flowers from June to October, acting as a true perennial. Nurserymen who choose the orange-flowered ones may be certain that they are obtaining a brilliant garden ornament.

#### **Cheiranthus Allioni**

A recent inquiry about the origin of *Cheiranthus allioni* brings up a question that makes one's head swim. I certainly cannot answer it, and a survey of the literature makes me think that no one is prepared to answer it with certainty. In gardens it is known as Siberian wallflower, indicating Asiatic origin; in some European quarters it is said to be a hybrid *crysimum*, with *Erysium ochroleucum* and *E. perofskianum* as parents, and is therefore not a *cheiranthus*; in this country, it is tentatively referred to as *Erysium asperum*, as when Hortus says that it "apparently belongs here," meaning to *E. asperum*. The last named is the plant that most nurserymen have always known as *E. arkansanum*, widespread over the northern sections of the continent (Arkansas, east and west, northward into Canada). It is much used in Eu-



# Fall, 1954—LINING-OUT STOCK—Spring, 1955

	Each	Each		Each	Each		Each	Each
	per	per		per	per		per	per
<b>Azalea Ghent (pontica).</b>			<b>Juniper, Andorra (Purple Andorra Juniper).</b>			<b>Rhododendron carolinianum</b>		
2-yr., field bed, T. ....	100	1000	4 to 6 ins., 1-yr., T. ....	100	1000	(Carolina Rhododendron).	100	1000
3 to 5 ins., 3-yr., T. ....	\$0.20	\$0.18	6 to 8 ins., 1-yr., T. ....	\$0.22	\$0.20	2-yr., T., field bed .....	\$0.25	...
5 to 8 ins., 3-yr., T. ....	.35	.32	8 to 10 ins., 2-yr., T. ....	.35	.32	3-yr., T., field bed .....	.35	...
8 to 10 ins., 4-yr., T. ....	.55	.50	10 to 12 ins., 3-yr., T. ....	.45	.42	<b>Rhododendron catawbiense.</b>		
10 to 12 ins., 4-yr., T. ....	1.00	...	<b>Juniperus canadensis aurea</b>			Reddish-purple,		
<b>Azalea Kaeppferi (Torch Azalea).</b>			(Golden Canadian Juniper).			seedling-grown.		
Mixed colors.			4 to 8 ins., 1-yr., T. ....	.25	...	2-yr., T., field bed .....	.30	...
2-yr., field bed, T. ....	.28	.25	<b>Juniperus glauca hetzii</b>			3 to 5 ins., 3-yr., T. ....	.45	...
<b>Azalea mollis (Chinese Azalea).</b>			(Hetz Juniper).			5 to 8 ins., 4-yr., T. ....	.55	...
Flame shades, mixed.			6 to 8 ins., 1-yr., T. ....	.28	.25	<b>Rhododendron hybrid.</b> Various		
3 to 6 ins., 2-yr., T. ....	.18	.16	8 to 10 ins., 2-yr., T. ....	.35	.32	colors, from red plants.		
6 to 8 ins., 2-yr., T. ....	.25	.22	10 to 12 ins., 3-yr., T. ....	.45	.42	Seedling-grown, very		
8 to 10 ins., 3-yr., T. ....	.45	.42	12 to 15 ins., 3-yr., T. ....	.55	.50	hardy.		
10 to 12 ins., 4-yr., T. ....	.65	.60	cut back .....	.55	.50	2-yr., T., field bed .....	.35	\$0.32
12 to 15 ins., 4-yr., T. ....	1.35	...	15 to 18 ins., 4-yr., T. ....	.70	...	3 to 5 ins., T. ....	.45	...
<b>Azalea poukhanensis.</b> Mauve,			<b>Juniperus communis hibernica</b>			5 to 8 ins., T. ....	.55	...
lavender shades.			(Irish Juniper).			8 to 10 ins., T. ....	.85	...
3-yr., field bed, T. ....	.35	.32	8 to 10 ins., 2-yr., T. ....	.35	.32	<b>Rhus cotinus (Smoke Tree).</b>	.18	.15
<b>Azalea schlippenbachii.</b> Bright,			10 to 12 ins., 2-yr., T. ....	.40	.38	12 to 15 ins., 3-yr., T. ....	.25	.22
pink blossoms.			12 to 15 ins., 3-yr., T. ....	.45	.42	<b>Taxus cuspidata (Spreading Yew).</b>		
2-yr., field bed, T. ....	.28	.25	15 to 18 ins., 3-yr., T. ....	.55	.50	6 to 8 ins., 1-yr., T. ....	.25	.22
<b>Buxus sempervirens welleri</b>			<b>Juniperus com. hibernica</b>			8 to 10 ins., 2-yr., T. ....	.35	.32
(Weller's Hardy Boxwood).			(Compact Irish Juniper).			10 to 12 ins., 3-yr., T. ....	.45	...
1-yr., field bed, T. ....	.22	.20	8 to 10 ins., 2-yr., T. ....	.35	.32	<b>Taxus media hicksii</b>		
4 to 6 ins., 2-yr., T. ....	.28	.25	10 to 12 ins., 2-yr., T. ....	.42	.40	(Hicks' Yew).		
6 to 8 ins., 2-yr., T. ....	.35	.32	12 to 15 ins., 3-yr., T. ....	.48	.45	6 to 8 ins., 1-yr., T. ....	.28	.26
8 to 10 ins., 3-yr., T. ....	.45	...	15 to 18 ins., 3-yr., T. ....	.55	.50	8 to 10 ins., 2-yr., T. ....	.38	.36
<b>Chamaecyparis filifera aurea</b>			cut back .....	.55	.50	10 to 12 ins., 3-yr., T. ....	.45	...
(Golden Thread Cypress).			<b>Juniperus pfitzeriana compacta</b>			<b>Thuja occidentalis</b>		
6 to 8 ins., 1-yr., T. ....	.30	.28	(Nelson variety). Compact-			(American Arborvitae).		
<b>Chamaecyparis lawsoniana aurea</b>			ly growing, gray-blue			12 to 15 ins., 3-yr., T. ....	.38	.35
(Golden Lawson Cypress).			pfitzer. Shears compactly			15 to 18 ins., 4-yr., T. ....	.45	.43
10 to 12 ins., 3-yr., T. ....	.45	.42	and develops quickly with			18 to 24 ins., 5-yr., T. ....	.55	.50
12 to 15 ins., 3-yr., T. ....	.55	.50	good, fibrous roots.			<b>Thuja occ. douglasii aurea</b>		
<b>Chamaecyparis lawsoniana allum.</b>			3 to 5 ins., 1-yr., T. ....	.25	.22	(Golden Arb.).		
Columnar, blue.			5 to 8 ins., 1-yr., T. ....	.35	.32	4 to 6 ins., 1-yr., T. ....	.25	.23
6 to 8 ins., 1-yr., T. ....	.25	.22	8 to 10 ins., 2-yr., T. ....	.45	...	6 to 8 ins., 1-yr., T. ....	.30	.28
8 to 10 ins., 1-yr., T. ....	.30	.28	<b>Juniperus pfitzeriana aurea</b>			6 to 8 ins., 2-yr., T. ....	.35	.32
10 to 12 ins., 2-yr., T. ....	.35	.32	(Golden Pfitzer Juniper).			8 to 10 ins., 3-yr., T. ....	.45	.42
12 to 15 ins., 3-yr., T. ....	.45	.42	4 to 6 ins., 1-yr., T. ....	.25	.22	<b>Thuja occ. elegantissima lutea</b>		
<b>Chamaecyparis plumosa aurea</b>			6 to 8 ins., 1-yr., T. ....	.30	.28	(Geo. Peabody Arb.).		
(Golden-plumed Cypress).			8 to 10 ins., 2-yr., T. ....	.35	...	3 to 6 ins., 1-yr., T. ....	.25	.22
6 to 8 ins., 1-yr., T. ....	.25	.22	<b>Juniperus stricta</b>			6 to 8 ins., 1-yr., T. ....	.30	.28
8 to 10 ins., 2-yr., T. ....	.35	.32	(Spiry Greek Juniper).			6 to 8 ins., 2-yr., T. ....	.35	.32
10 to 12 ins., 3-yr., T. ....	.45	.40	3 to 5 ins., 1-yr., T. ....	.28	.26	8 to 10 ins., 3-yr., T. ....	.40	.38
<b>Chamaecyparis squarrosa.</b> Mossy,			6 to 8 ins., 1-yr., T. ....	.35	.32	10 to 12 ins., 3-yr., T. ....	.45	.42
green foliage.			<b>Juniperus squamata meyeri</b>			<b>Thuja occ. globosa</b>		
5 to 8 ins., 1-yr., T. ....	.30	.28	(Meyer Juniper).			(Woodward Globe Arb.).		
<b>Chamaecyparis thyoides.</b>			3 to 5 ins., 2-yr., T. ....	.28	...	6 to 8 ins., 1-yr., T. ....	.25	...
6 to 8 ins., 1-yr., T. ....	.25	.23	5 to 8 ins., 2-yr., T. ....	.35	...	8 to 10 ins., 2-yr., T. ....	.35	.32
<b>Euonymus fortunei carrierei.</b>			8 to 10 ins., 3-yr., T. ....	.45	...	10 to 12 ins., 3-yr., T. ....	.45	...
Schleyergreen dwarf.			<b>Juniperus virginiana (Red Cedar).</b>			<b>Thuja occ. plicata douglasii</b>		
4 to 6 ins., 1-yr., T. ....	.18	.16	8 to 10 ins., 3-yr., T. ....	.15	...	(Giant Arb.).		
6 to 8 ins., 1-yr., T. ....	.22	.20	10 to 15 ins., 3-yr., T. ....	.20	...	6 to 8 ins., 1-yr., T. ....	.22	.20
8 to 10 ins., 2-yr., T. ....	.30	.28	<b>Koeleuteria paniculata</b>			8 to 10 ins., 2-yr., T. ....	.30	.28
10 to 15 ins., 3-yr., T. ....	.35	.32	(Golden-rain Tree).			10 to 15 ins., 3-yr., T. ....	.38	.36
<b>Euonymus fortunei coloratus.</b>			8 to 12 ins., 3-yr., T. ....	.18	.16	<b>Thuja occ. pyramidalis</b>		
Procumbent, broad-leaved			12 to 18 ins., 3-yr., T. ....	.22	.20	(Pyramidal Arb.).		
creeper.			18 to 24 ins., 3-yr., T. ....	.30	.28	6 to 8 ins., 1-yr., T. ....	.28	.26
6 to 8 ins., 1-yr., T. ....	.16	.14	<b>Pieris floribunda</b>			8 to 10 ins., 2-yr., T. ....	.35	.32
8 to 10 ins., 2-yr., T. ....	.25	.22	(Mountain Andromeda).			10 to 12 ins., 3-yr., T. ....	.45	.42
10 to 15 ins., 3-yr., T. ....	.35	.32	3 to 5 ins., 2-yr., T. ....	.28	.26	12 to 15 ins., 3-yr., T. ....	.55	...
<b>Euonymus radicans coloratus.</b>			6 to 8 ins., 3-yr., T. ....	.35	.32	<b>Tsuga canadensis (Hemlock).</b>		
Small-leaved, procumbent			10 to 18 ins., 3-yr., T. ....	.18	.15	Grown from seed, not		
creeper.			18 to 24 ins., 4-yr., T. ....	.25	.20	collected plants.		
6 to 8 ins., 1-yr., T. ....	.16	.14	<b>Leucothoe cuneata</b>			5 to 8 ins., 3-yr., T. ....	.25	.22
8 to 10 ins., 2-yr., T. ....	.22	.20	(Drooping Leucothoe).			8 to 10 ins., 4-yr., T. ....	.35	.32
10 to 15 ins., 3-yr., T. ....	.28	.26	4 to 6 ins., 2-yr., T. ....	.20	.18	10 to 12 ins., 4-yr., T. ....	.45	.40
<b>Euonymus fortunei erectus</b>			6 to 8 ins., 2-yr., T. ....	.28	.25	<b>Viburnum opulus (Snowball).</b>		
(Bigleaf Wintercreeper).			8 to 10 ins., 3-yr., T. ....	.35	.32	Red berries, fall.		
6 to 8 ins., 1-yr., T. ....	.18	.16	10 to 12 ins., 3-yr., T. ....	.45	...	6 to 10 ins., 2-yr., T. ....	.12	.10
8 to 10 ins., 2-yr., T. ....	.22	.20	<b>Liquidambar styraciflua</b>			cut back .....	.12	.10
10 to 12 ins., 2-yr., T. ....	.28	.25	(Sweet Gum).			10 to 15 ins., 3-yr., T. ....	.18	.16
12 to 15 ins., 3-yr., T. ....	.35	.32	1-yr., S., field bed .....	.10	.08	<b>Viburnum opulus nana</b>		
15 to 18 ins., 4-yr., T. ....	.45	...	8 to 12 ins., 2-yr., T. ....	.15	.12	(Dwarf Bush Cranberry).		
<b>Euonymus radicans vegetus</b>			<b>Mahonia aquifolium (Oregon</b>			A very good dwarf sort.		
(Evergreen Wintercreeper).			Holly-grape).			Grows slowly and compact.		
6 to 8 ins., 1-yr., T. ....	.18	.16	3 to 5 ins., 3-yr., T. ....	.18	.16	Very hardy.		
8 to 10 ins., 2-yr., T. ....	.25	.23	5 to 10 ins., 3-yr., T. ....	.25	.22	1-yr., field bed, T. ....	.18	.16
10 to 12 ins., 3-yr., T. ....	.35	.32	<b>Picea excelsa (Norway Spruce).</b>			3-yr., field bed, T. ....	.35	...
<b>Euonymus patens.</b>			8 to 10 ins., 3-yr., T. ....	.15	...			
8 to 10 ins., 2-yr., T. ....	.35	...	10 to 12 ins., 4-yr., T. ....	.20	.18			
10 to 15 ins., 3-yr., T. ....	.55	...	12 to 15 ins., 4-yr., T. ....	.25	.22			
<b>Hex crenata (Japanese Holly).</b>			<b>Picea pungens glauca</b>					
Pyramidal.			(Colorado Blue Spruce).					
4 to 6 ins., 1-yr., T. ....	.20	.18	4 to 6 ins., 3-yr., T. ....	.20	.18			
6 to 8 ins., 1-yr., T. ....	.25	.23	6 to 8 ins., 4-yr., T. ....	.28	.26			
8 to 10 ins., 2-yr., T. ....	.35	.32	<b>Pieris japonica</b>					
10 to 12 ins., 3-yr., T. ....	.55	...	(Japanese Andromeda).					
<b>Hex crenata convexa (bullata)</b>			3 to 6 ins., 2-yr., T. ....	.25	.23			
(Boxleaf Holly).			6 to 8 ins., 3-yr., T. ....	.32	.30			
4 to 6 ins., 1-yr., T. ....	.20	.16	8 to 10 ins., 3-yr., T. ....	.45	.42			
6 to 8 ins., 1-yr., T. ....	.25	.23	10 to 12 ins., 4-yr., T. ....	.65	...			
8 to 10 ins., 2-yr., T. ....	.45	.40	<b>Pinus mugho (Dwarf Mugho Pine).</b>					
10 to 12 ins., 3-yr., T. ....	.70	...	4 to 6 ins., 3-yr., T. ....	.18	.16			
<b>Hex crenata helleri (Heller's</b>			6 to 8 ins., 4-yr., T. ....	.22	.20			
Dwarf Holly).			8 to 10 ins., 4-yr., T. ....	.32	.30			
1-yr., field bed, T. ....	.18	.16	10 to 12 ins., 4-yr., T. ....	.45	...			
<b>Hex glabra (Inkberry).</b>			<b>Pinus nigra (Austrian Pine).</b>					
8 to 10 ins., 2-yr., T. ....	.35	...	3 to 5 ins., 3-yr., S. ....	.10	.08			
<b>Hex opaca femina (American</b>			5 to 10 ins., 4-yr., T. ....	.18	.16			
Holly Fem.)			<b>Pinus strobus</b>					
1-yr., field bed, T. ....	.35	...	(Eastern White Pine).					
<b>Hex rotundifolia (Roundleaf</b>			4 to 8 ins., 3-yr., T. ....	.15	...			
Japanese Holly).			<b>Pyracantha coccinea lalandi</b>					
3 to 6 ins., 1-yr., T. ....	.20	.18	(Firethorn).					
6 to 8 ins., 1-yr., T. ....	.30	.28	6 to 8 ins., 2-yr., T. ....	.25	.23			
8 to 10 ins., 2-yr., T. ....	.45	.40	8 to 12 ins., 3-yr., T. ....	.32	.30			
12 to 18 ins., 3-yr., T. ....	.75	.70						

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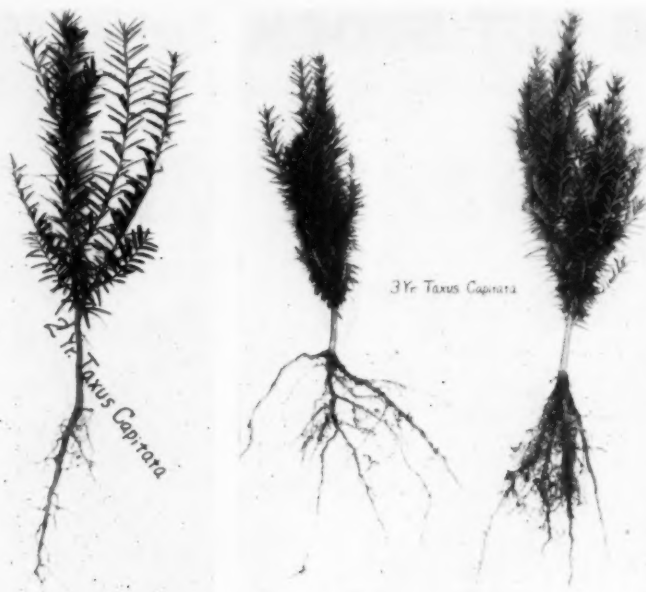
<b>Tsuga canadensis (Hemlock).</b>	
3 to 4 ft. ....	\$2.50
4 to 5 ft. ....	3.25
5 to 6 ft. ....	3.75
<b>Taxus capitata (Upright Yew).</b>	
3 to 4 ft. ....	8.00
4 to 5 ft. ....	9.50
<b>Thuja occidentalis</b>	
(American Arborvitae).	
5 to 6 ft. ....	3.00
6 to 7 ft. ....	3.75
7 to 8 ft. ....	4.50
8 to 10 ft. ....	5.25

25 at the 100 Rate.  
300 at the 1000 Rate.

TERMS: Cash with order—free packing; otherwise, 1/3 deposit with order and balance C.O.D. and packing at cost. All shipments by railway express.

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Actual Photos of Stock Listed Below Taken Aug. 16.

## 20 MILLION TREES A YEAR

	Per 100	Per 1000		Per 100	Per 1000
<b>RED BARBERRY</b>			<b>MUGHO PINE (True Dwarf)</b>		
2-yr., S., 4 to 10 ins..	\$10.00	\$ 50.00	3-yr., S., 4 to 6 ins...	\$ 7.00	\$ 35.00
3-yr., S., 8 to 15 ins..	16.00	80.00	5-yr., T., 6 to 12 ins...	20.00	100.00
<b>CEDRUS ATLANTICA GLAUCA</b>			<b>COLORADO BLUE SPRUCE</b>		
2-yr., S., 6 to 12 ins..	15.00	100.00	2-yr., S., 3 to 6 ins...	7.00	35.00
3-yr., S., 12 to 24 ins..	30.00	....	3-yr., S., 5 to 10 ins...	12.00	60.00
<b>WHITE DOGWOOD</b>			(Very superior stock)		
1-yr., S., 6 to 9 ins..	....	45.00	4-yr., T., 6 to 10 ins...	20.00	100.00
2-yr., S., 10 to 16 ins..	....	75.00	<b>SERBIAN SPRUCE</b>		
2-yr., S., 16 to 24 ins..	....	90.00	2-yr., S., 2 to 4 ins...	8.00	40.00
<b>JUNIPERUS VIRGINIANA</b>			2-yr., S., 4 to 8 ins...	12.00	60.00
2-yr., S., 5 to 9 ins...	6.00	30.00	<b>TAXUS CUSPIDATA</b>		
3-yr., S., 8 to 18 ins...	8.00	40.00	1-yr., T., 5 to 6 ins...	20.00	150.00
<b>LILAC</b>			<b>TAXUS CUSPIDATA CAPITATA</b>		
2-yr., S., 4 to 12 ins...	7.00	35.00	2-yr., S., (2-0), 4 to 7 ins. ....	15.00	125.00
<b>NORWAY MAPLE</b>			3-yr., S., (3-0), 6 to 12 ins. ....	30.00	250.00
1-yr., S., 6 to 10 ins..	9.00	45.00	<b>TAXUS HICKSI</b>		
2-yr., S., 10 to 15 ins..	14.00	70.00	1-yr., T., 5 to 7 ins...	20.00	175.00
<b>PIN OAK</b>			<b>TAXUS HUNNEWELLIANA</b>		
2-yr., S., 15 to 20 ins..	15.00	100.00	1-yr., T., 5 to 7 ins...	25.00	200.00

250 of each variety at 1000 rate

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ropean gardens as a spring bedder and is there available in at least one named variety, Golden Gem. For that purpose, the seeds are planted in July and handled like *Cheiranthus allioni*. It should be pointed out that *E. asperum* is yellow-flowered, while *C. allioni* is typically orange, though it is now available in golden yellow in variety Golden Bedder.

### Alchemilla Alpina

A friend of this column writes as follows: "About a year ago you casually praised *Alchemilla alpina*, and I have been waiting ever since for a fuller note. Can you supply it now?" Yes, I can, and with pleasure, because it is one of my favorite plants.

When I was preparing to write this note, I went to the file on lady's-mantle and found the following quotation, without credit. As it sounds much like something which the late Peter van Melle might have said, I am crediting it to him, because, in addition, I remember that it was also one of his favorite small plants. "As I have it," he wrote, "*A. alpina* makes small mounds of glorified strawberry leaves, averaging about two and a half inches across, palmately cleft into (mostly) seven fingers. This foliage is dark green and glossy on the upper side, and each lobe is stitched around with a fine silver thread. But the fine part of it all is the reverse side of the leaf — a creation of soft silk and silver sheen that is a feast, both to the touch and to the eye." The leafage is, of course, the plant's fortune, and the 6-inch flowering stems, bearing inconspicuous flowers, may, with reason, be removed before flowering, if seeds are not wanted. It is easy to grow in any light soil, doing best here in a rather infertile one, and is fully hardy.

### Iris Reticulata

A New Jersey reader asks how to propagate *Iris reticulata*. Because I never have been able to do more than induce *reticulata* to hold its own in this garden, I would not attempt to answer that question. But I remember a letter received years ago from a Virginia correspondent which outlined his method of handling this bulbous iris. As I remember, it ran something like this:

A naturally heavy, fertile soil had been made lighter by incorporating a liberal amount of sand with it and enriched with an application of a half pound of a 4-12-10 fertilizer to 10 square feet. It was then spaded as deeply as a spade would turn it

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Thrips  
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Tarnished plant bug  
Rose leafhopper  
Potato leafhopper  
Soft brown scale  
Monterey pine scale  
Black scale crawlers  
Pine needle scale  
Oyster shell scale  
Juniper scale  
Fletcher scale  
Bagworms  
Oak kermes  
Scurfy scale  
Florida red scale  
Azalea scale  
Magnolia scale  
Pine leaf scale  
Euonymus scale  
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European pine shoot moth  
Tent caterpillar  
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Fall, 1954 or Spring, 1955

	Per 10	Per 100
<i>Juniperus chinensis columnaris</i> (grafted blue), 4 to 5 ft.	\$ 62.50	\$ 600.00
<i>Juniperus chinensis columnaris</i> (grafted blue), 5 to 6 ft.	77.50	700.00
<i>Juniperus chinensis pfitteriana</i> , 18 to 24 ins.	32.50	300.00
24 to 30 ins.	42.50	400.00
30 to 36 ins.	52.50	500.00
<i>Juniperus excelsa stricta</i> , 18 to 24 ins.	25.00	225.00
<i>Juniperus excelsa stricta</i> , 24 to 30 ins.	30.00	275.00
<i>Juniperus virginiana canari</i> , 4 to 5 ft.	42.50	400.00
<i>Taxus brevifolia nana</i> (dwarf), 12 to 15 ins.	35.00	325.00
15 to 18 ins.	42.50	400.00
18 to 24 ins.	47.50	450.00
<i>Taxus cuspidata</i> (spreading), 15 to 18 ins.	45.00	425.00
<i>Taxus cuspidata</i> (spreading), 18 to 24 ins.	52.50	500.00
<i>Taxus cuspidata capitata</i> (sheared upright), 4 to 4 1/2 ft.	175.00	1,500.00
<i>Taxus cuspidata capitata</i> (sheared upright), 4 1/2 to 5 ft.	225.00	2,000.00
<i>Taxus densiformis</i> (spreading), 15 to 18 ins.	47.50	450.00
18 to 24 ins.	52.50	500.00
24 to 30 ins.	62.50	600.00
<i>Taxus halimifolia</i> (upright), 18 to 24 ins.	50.00	475.00
<i>Taxus hatfieldi</i> , 18 to 24 ins.	50.00	475.00
<i>Taxus hatfieldi</i> , 24 to 30 ins.	55.00	525.00
<i>Taxus hicksii</i> , 18 to 24 ins.	50.00	475.00
<i>Taxus thayeri</i> (spreading), 24 to 30 ins.	60.00	.....
<i>Taxus thayeri</i> (spreading), 30 to 36 ins.	70.00	.....

## DECIDUOUS SHRUBS

Almond, Pink-flowering (own root), 2 to 3 ft.	5.00	45.00
Barberry, Redleaf, 12 to 15 ins., 3-yr., T.	3.50	30.00
15 to 18 ins., 3-yr., T.	4.50	40.00
18 to 24 ins., 3-yr., T.	5.50	50.00
<i>Cornus florida rubra</i> (Pink Dogwood), 18 to 24 ins.	13.50	125.00
<i>Cornus florida rubra</i> (Pink Dogwood), 2 to 3 ft.	17.50	150.00
<i>Cotoneaster acutifolia</i> , 18 to 24 ins., T.	2.50	20.00
<i>Cotoneaster acutifolia</i> , 2 to 3 ft., T.	3.00	25.00
<i>Cydonia japonica</i> , 18 to 24 ins.	3.50	30.00
<i>Cydonia japonica</i> , 2 to 3 ft.	4.50	40.00
<i>Cydonia japonica</i> (upright red), 18 to 24 ins.	4.50	40.00
<i>Cydonia japonica</i> (upright red), 2 to 3 ft.	5.50	50.00
<i>Deutzia gracilis</i> , 12 to 15 ins.	4.50	40.00
<i>Deutzia gracilis</i> , 15 to 18 ins.	6.50	60.00
<i>Deutzia gracilis rosea</i> , 12 to 15 ins.	4.50	40.00
<i>Deutzia gracilis rosea</i> , 15 to 18 ins.	6.50	60.00
<i>Deutzia crenata</i> or <i>Pride of Rochester</i> , 2 to 3 ft.	3.50	30.00
<i>Deutzia crenata</i> or <i>Pride of Rochester</i> , 3 to 4 ft.	4.00	35.00
<i>Forsythia spectabilis</i> , 2 to 3 ft.	4.00	35.00
<i>Forsythia spectabilis</i> , 3 to 4 ft.	4.50	40.00
Honeysuckle:		
(Morrow, Pink Tatarian, Red Tatarian, White Tatarian), 2 to 3 ft.	3.50	30.00
3 to 4 ft.	4.00	35.00
<i>Philadelphus virginialis</i> , 18 to 24 ins., heavy.	3.00	25.00
<i>Philadelphus virginialis</i> , 2 to 3 ft., heavy.	3.50	30.00

### Privet Amur River North,

2-yr., 12 to 18 ins., 3 br. and up.	(\$100.00 per 1000)	1.40	12.00
2-yr., 18 to 24 ins., 3 br. and up.	(120.00 per 1000)	1.50	14.00
3-yr., 2 to 3 ft., extra-heavy, T.	(150.00 per 1000)	2.00	17.50
3-yr., 3 to 4 ft., extra-heavy, T.	(175.00 per 1000)	2.25	20.00

(Onarga Grown)

<i>Weigela rosea</i> , 2 to 3 ft.	4.50	40.00
<i>Weigela rosea</i> , 3 to 4 ft.	5.50	50.00

## SHADE TREES

Elm, Chinese, 1 to 1 1/4-in. cal.	14.00	125.00
Elm, Chinese, 1 1/2 to 1 3/4-in. cal.	22.50	200.00
Maple, Soft, 8 to 10 ft.	17.50	165.00
Maple, Soft, 10 to 12 ft.	20.00	190.00

## LINING-OUT SHRUBS

	Per 100	Per 1000
Barberry, Thunberg (Green), 2-yr., 9 to 12 ins., S.	\$ 6.50	\$ 60.00
Barberry, Redleaf, 2-yr., 9 to 12 ins., S.	9.50	90.00
<i>Eunymus alatus compactus</i> , 2-yr., 8 to 12 ins., T.	27.50	250.00
<i>Philadelphus virginialis</i> , 12 to 18 ins.	14.00	120.00
<i>Rhodotypos kerrioides</i> (White Kerria), 6 to 12 ins., S.	12.00	100.00



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Office and storage located at Onarga, Illinois.

over. The bulbs were planted three inches deep and eight or 10 inches apart. As soon as leaf growth commenced to show at the surface the following spring, nitrate of soda was spread on the surface around each plant at the rate of two ounces to 10 square feet.

After two years growth, the original 12 produced about 600 blooming-size and a large number of smaller bulbs, which is a good increase for any plant. No doubt a greater increase would have been obtained if the bulbs had been dug both years of the trial. Incidentally, it is necessary to dig every year in our section, digging as soon as the foliage ripens off and storing in a dry shed until late September.

## Ajuga for Edgings

I visited a garden this summer which I had not seen since 1947, at which time the owner was experimenting with a variegated form of *Ajuga reptans* as an edging plant. This experiment was so satisfactory that he now has an edging of it along the entire length of his main path through the garden. My own experiences with the bugles has led me to the belief that their spreading habits would create chaos or it would be burdensome to keep them under control, but this busy gardener has used the plant from choice rather than necessity, claiming that a little time spent on the long ribbon of plants with a spud hoe kept it within bounds. The pretty foliage, together with a long display of pink, labiate flowers, certainly makes a most effective edging. *Ajuga reptans* with variegated foliage is also available with white flowers, as well as the green leaves and blue flowers of the type.

While on the subject of bugles, I might as well call attention to a few others, including the curiously pretty *A. metallica crispa*, whose fortune is in its curled leaves of metallic sheen. It is a little less invasive than the reptans group mentioned in the preceding paragraph; so it can be used in more refined company. But the least invasive of any that I know is the pretty *A. genevensis*, which also has the prettiest blue flower color in the genus. All that have been in this garden are easily grown and hardy here in northern Michigan, with the exception of *A. orientalis*.

E. W. EMERICK, Carnegie, Pa., has recently started a new nursery business. He specializes in Christmas trees.

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## This Business Of Ours

### Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

#### STERILITY IN PLANTS

In nature, the primary object of plants is to reproduce themselves. Often a sick tree or plant will bear a tremendous crop of seeds as its dying effort. Yet man has so upset the balance of nature in developing his agriculture and horticulture that many of the plants he grows are sterile or nearly so. In addition plants in their evolution have developed some curious means of fertilization so that the causes of sterility in plants make a most interesting study.

The story of the tiny wasp and the Smyrna fig in California is familiar to nurserymen, and there are other parallel stories. There is a yucca, for instance, that must be pollinated by a certain moth which lays its eggs in the flower while pollinating it. The young larvae feed on the developing seeds but do not eat them all. Both the plant and the moth are actually necessary for the completion of the life cycle of each. There are other flowers, too, that are particularly dependent on certain insects for their pollination.

The phenomenon that makes cross-pollination necessary in plants is a most interesting one. In some cases the stigma sticks out so far beyond the anthers that it is most unlikely that pollen from a given flower will reach the stigma of the same flower. The case of the Chinese chestnut is an unusual one. Self-pollination can take place but is rare because pollen ripening and receptivity do not occur simultaneously although they overlap slightly.

Another nut plant, the filbert, illustrates another method by which plants make cross-pollination almost mandatory. Here the catkins and female flower are borne separately but on the same plant. In eastern Maryland filberts are difficult to crop because of their strange flowering period, which is usually in February, probably the worst time of the year. Often freezes will interfere with fertilization. This is typical of plants moved from one climate to another. In some plants the flowers of each sex are borne on separate

plants. The prime example is holly, and of course on such plants only cross-pollination is possible. Man further complicates things by selecting in some cases to grow only the female in the holly, and one farmer told me he tried to plant only the male asparagus. I do not know whether that is a sound practice or not.

When one considers how far the tiny cell must grow in the style of some flowers before it completes fertilization it is a wonder they are fertilized at all. In the lily the tube must grow three or four inches. A

related plant, *Lycoris squamigera*, of which this nursery has grown thousands, has never yet borne seed, no matter what has been done. I understand scientists at Beltsville, Md., working with the same plant have tried many things including placing hormones in the tissue. One might wonder why, with the natural abundance of all sorts of pollen, we do not obtain all sorts of strange hybrids. Yet minute differences in chemical content of the sticky surface of the stigma will inhibit the growth of the wrong kind of pollen. In plants this may also prevent self-pollination.

In a number of plants widely grown by man seeds have completely disappeared—in the banana, the seedless grapes and oranges for instance — and in these cases actual propagation by seeds is impossible, usually because of the malformation or absence of a necessary flower part. In this case it is the sterile fruit that man is interested in. The development of showy flowers has caused

## NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS		
	Per 10	Per 100
<i>Clethra alnifolia</i>		
18 to 24 ins.	\$4.00	\$35.00
2 to 3 ft.	6.00	50.00
3 to 4 ft.	8.00	70.00
<i>Ilex verticillata</i>		
2 to 3 ft.	6.00	50.00
3 to 4 ft.	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft.	5.00	40.00
3 to 4 ft.	6.00	50.00
<i>Viburnum dentatum</i>		
2 to 3 ft.	4.50	35.00
3 to 4 ft.	6.00	50.00

SUGAR MAPLES		
	Unit price in quantities	
	10 to 50	50 to 100
<i>Acer saccharum</i>	49	250
1 1/2 to 1 3/4 in. cal.	\$4.00	\$3.50
1 3/4 to 1 7/8 in. cal.	6.00	5.00
1 7/8 to 2 in. cal.	7.00	6.00
2 to 2 1/8 in. cal.	9.00	8.00
2 1/8 to 3 in. cal.	12.00	11.00

CLUMP BIRCH		
	Per 10	Per 100
<i>Paper Birch</i>		
5 to 6 ft.		
3 stems and up.	\$30.00	
6 to 8 ft.		
3 stems and up.	40.00	\$90.00
<i>Gray Birch</i>		
4 to 6 ft.		
3 to 6 stems.	20.00	150.00
6 to 8 ft.		
3 to 6 stems.	35.00	250.00

PAPER BIRCH		
	Per 100	Per 1000
<i>Betula papyrifera</i>		
2 to 2 ft.	\$8.00	\$70.00
3 to 4 ft.	25.00	200.00
4 to 6 ft.	40.00	300.00
6 to 8 ft.	100.00	

LINING-OUT STOCK		
<i>Acer saccharum</i>		
2 to 3 ft.	12.00	100.00
3 to 4 ft.	30.00	250.00
4 to 6 ft.	60.00	500.00
<i>Clethra alnifolia</i>		
6 to 18 ins.	7.00	60.00
<i>Ilex verticillata</i>		
1 to 2 ft.	10.00	90.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	7.00	60.00
<i>Viburnum acerifolium</i>		
6 to 18 ins.	8.00	70.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.	8.00	70.00
<i>Viburnum dentatum</i>		
1 to 2 ft.	8.00	70.00

HEMLOCK TRANSPLANTS		
<i>Tsuga canadensis</i>		
4 to 8 ins. trans.	2-2	15.00 120.00
8 to 12 ins. trans.	2-2	20.00 180.00

HEMLOCK SEEDLINGS		
<i>Tsuga canadensis</i>		
6 to 9 ins.	4.00	20.00
9 to 12 ins.	6.00	45.00
12 to 18 ins.	8.00	65.00

All stock is first-quality collected material except as otherwise noted. See September 1 issue, pages 22, 23 and 24, for complete wholesale list for fall, 1954, and spring, 1955 of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens. Catalog on request.

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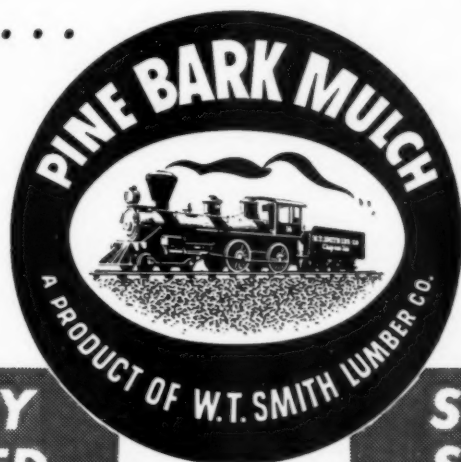
### EVERGREENS

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man, Ala., it is attractively packaged and certain to become a standard item for both large-scale and small-scale gardeners. It is highly recommended for mulching azaleas, camellias, rosebushes and other woody shrubs as well as herbaceous, annual and perennial flowers and vegetables. Excellent substitute for tanbark. Send your orders, or write for descriptive literature, to Trans-Sphere Trading Corporation, Mobile, Ala.

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# QUALITY EVERGREENS

## BROAD-LEAVED EVERGREENS

*Abelia Grandiflora*  
*Buxus Harlandi*  
*Buxus Sempervirens*  
*Cotoneaster Francheti*  
*Cotoneaster Horizontalis*  
*Elaeagnus Fruitlandi*  
*Elaeagnus Simoni*  
*Euonymus Coloratus*  
*Euonymus Fortunei Erectus*  
 (small leaf)  
*Euonymus Patens*  
*Gardenia Fortunei*  
*Ilex Cornuta Burfordi*  
*Ilex Cornuta Femina*  
*Ilex Crenata Convexa*  
*Ilex Crenata Rotundifolia*  
*Ilex Opaca East Palatka*  
 (heavily sheared)  
*Ilex Vomitoria*  
 (well sheared)  
*Pride of Houston*  
*Jasminum Floridum*  
*Laurel Cherry*  
 (well sheared)  
*Ligustrum Lucidum*  
 (Griffing type)  
*Ligustrum Lucidum*  
 (Black Wax)  
*Ligustrum Lucidum Nanum*  
*Loropetalum Texanum*  
*Magnolia Glauca*  
*Magnolia Grandiflora*  
*Magnolia Soulangeana*  
*Magnolia Soulangeana Nigra*  
*Nandina Domestica*  
*Photinia Serrulata*

## CONIFERS

*Arborvitae, Or. Baker*  
*Arborvitae, Or. Berckmans*  
 (Aurea Nana)  
*Arborvitae, Or. Blue Cone*  
 (very compact)  
*Arborvitae, Or. Bonita*  
*Arborvitae, Or. Bonita Golden*  
*Arborvitae, Or. Excelsa*  
*Arborvitae, Or. Fruitland*  
 (Green Berckmans)

## CONIFERS, cont.

*Arborvitae, Or. Newark*  
*Arborvitae, Occ. Globosa*  
*Arborvitae, Occ. Pyramidalis*  
*Arborvitae, Occ. Nigra*  
 (Dark Green)  
*Cedrus Deodara*  
*Juniper, Andorra*  
*Juniperus Excelsa Stricta*  
*Juniperus Glauca Hetzi*  
*Juniperus Glauca Hetzi*  
 (staked and sheared)  
*Juniperus Fastigiata*  
*Juniperus Hibernica*  
 (Irish)  
*Juniperus Pfitzeriana*  
*Juniperus Pfitzeriana Compacta*  
*Juniper Pfitzeriana Aurea*  
*Juniperus Sabina*  
*Juniperus Sabina Vonehron*  
*Juniperus Sabina Vonehron*  
 (staked and sheared)  
*Juniperus Scopulorum*  
*Juniperus Sylvestris*  
 (Chinensis Femina)  
*Juniperus Virginiana Burki*  
*Juniperus Virginiana Canaerti*  
*Juniperus Virginiana Dundee*  
*Juniperus Virginiana Glauca*  
*Pinus Mughus*  
*Pinus Nigra*  
 (Austrian Pine)  
*Pinus Sylvestris*  
 (Scotch Pine)

## CANNED STOCK

*Abelia Grandiflora*  
*Gardenia Fortunei*  
*Gardenia Mystery*  
*Ilex Burfordi*  
*Ilex Convexa*  
*Ilex Rotundifolia*  
*Ilex Helleri*  
*Magnolia Grandiflora*  
*Pyracantha Formosana*  
 (light)  
*Pyracantha Lalandi*  
 (light)  
*Crape Myrtle*

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many plants to become sterile or partly so. Large double flowers are the aim of many hybridizers and this doubling is usually created by encouraging the increased production of petals at the expense of some of the stamens. Many of our showiest and ornamental flowers are in reality malformations, although that sounds like an unkind thing to say about a rose. The rose, in spite of intense hybridizing, has not lost all of its fertility. Trees like the flowering cherries and certain flowering crab apples are now so completely sterile that it is necessary to go back to parents to produce new varieties.

Nature itself does not often fall back on vegetative propagation for survival, especially in the higher forms of plant life, yet it does in a few cases. In still other cases the production of seeds is so rare that it is noteworthy, as in the case of bamboo and certain species of cereus. We grow a number of ornamental shrubs that produce seeds only when they reach old age. One of the best examples is English ivy, which actually assumes a different character in growth and foliage when it finally goes to seed. Still others, like *Lonicera pileata* and boxwood, bear seeds only when they are old. The boxwood plants up north have been moved out of their native climate for they flower in January and February like the camellias, osmanthus and tea plants. These are usually prohibited by frost from making seeds. Frost does not necessarily rob all pollen of its fertilizing powers, for the pollen of the arctic willows is seemingly capable of withstanding freezing.

Some plants are wind pollinated; these plants, because of the hit or miss system, produce prodigal amounts of pollen. It is usually the botanically lower forms that are so pollinated, like the pines and other cone-bearing plants and the grasses. We have a row of deodara cedar trees along our driveway which have borne cones for a number of years but never produced seed until a year ago; we also have a row of *Cryptomeria japonica* trees which have not yet produced seed. Whether the cause is climate or the lack of huge amounts of pollen I do not know.

The pollination problems of plants are endless and will continue to become more complex as we shift plants around for our use; yet, in spite of this, nature seems to abhor a plant vacuum and fills every nook and cranny it can with some form of plant life.

# Try Del Rancho Fortuna For California's Finest Trees

**SHADE TREES**  
**Landscape Size**  
**Straight-Trunked**  
**Well-Headed**

Grown — Trained — Packed  
**EXPERTLY**

**AMERICAN SYCAMORE**

**SILVER MAPLE**

**MODESTO ASH**

**HARDY CATALPA**

**WHITE BIRCH**

**MISSISSIPPI**

**HACKBERRY**

**PAUL'S SCARLET**

**HAWTHORNE**

**WEeping MULBERRY**



## European Sycamore

(Calculate their size for yourself. Gene, pictured, is 6 ft. 1/2 ins. tall.)

Quantity	12 to 14 ft.	10 to 12 ft.	8 to 10 ft.	6 to 8 ft.	5 to 6 ft.
10-19 .....	\$2.00	\$1.75	\$1.50	\$1.00	\$0.85
100-299 .....	1.90	1.65	1.40	.90	.75
300 Up .....	1.80	1.55	1.30	.80	.65

Limited supply of Jumbo Size (2 1/4-in. cal. and up) at \$3.50

F.O.B. McFarland, Calif. Packing at Cost.

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# GRESHAM'S LINERS

2 1/4-in. pots, except where noted. \*Bed-grown.

<b>Abelia</b>	100	1000
Edward Goucher (heavy)	\$0.17 1/2	\$0.15
Edward Goucher (flat-grown)	.07	.06
<b>Azalea</b>		
Lady Lilac, 6 to 8 ins.	.15	.12 1/2
Poukhanensis, 6 to 8 ins.	.15	.12 1/2
<b>Cotoneaster</b>		
Divaricata	.17 1/2	.15
Francheti	.20	.18 1/2
Repens	.17 1/2	.15
Salicifolia	.20	.18 1/2

## For Fall Shipment

Deutzia Gracilis, 6 to 8 ins.	.12 1/2	.10
Deutzia Gracilis Rosea, 6 to 8 ins.	.12 1/2	.10
(Extra-nice plants)		

*Euonymus Patens Sieboldianus, 6 to 8 ins.	.15	.12 1/2
Hydrangea Otaksa (Special)	.12 1/2	.10
<b>Ilex</b>		
Cassine Angustifolia	.20	.18 1/2
Cassine Myrtifolia	.20	.18 1/2
Cornuta Burfordi	.22 1/2	.20
Glabra	.20	.18 1/2
Opaca (cuttings from choice berry plants)	.45	.40
Opaca East Palatka	.30	.27 1/2
Vomitorea	.25	.22 1/2
<b>Juniperus</b>		
Pfitzeriana	.20	.18 1/2
Sylvestris	.20	.18 1/2
Kolkwitzia (Beauty Bush)	.17 1/2	.15
<b>Prunus Laurocerasus</b>		
Officinalis (English Laurel)	.20	.18

## Ready for Canning or Field Planting

Pyracantha Lalandi	.17 1/2	.15
Pyracantha Serrata (a good red)	.20	.18 1/2

Photinia Glabra	.20	.18 1/2
Retinospora Cyano Viridis (Beautiful blue color— an old plant making new stand—something you should have.)	.22 1/2	.20

## Ready for Landscape Work

<b>Hedera</b>		
Helix (English Ivy)	.15	.12 1/2
Baltica	.17 1/2	.15
Self-branching	.17 1/2	.15
Star Leaf	.17 1/2	.15

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## COVER ILLUSTRATION

### Ulmus Carpinifolia Umbraculifera

While the globe smooth leaf elm is not new, having been introduced from Turkistan by 1879, it has not been seen or used much in this country outside of arboretums. During the past few years as more attention has been given to the choice of trees based on their functional use, this variety of the smooth leaf elm has come clearly into the picture.

In habit of growth it forms a dense, globose head with many somewhat small, slender branches. The cover illustration indicates the typical growth habit of high-budded or grafted specimens. Plants grown as low specimens show a low, mound-like growth with branches to the ground. The tree-type plants are, however, much more useful.

The generic name, *ulmus*, is the ancient Latin name of the elm; the specific name, *carpinifolia*, refers to the fact that the leaves resemble those of the genus *carpinus*, and the variety name, *umbraculifera*, refers to the umbrella-shaped head. Actually, it would have been better if the variety had been named *globosa* since that more clearly describes its shape.

Leaves of the globe smooth leaf elm are elliptic or nearly so and average one and one-fourth to two and three-fourths inches in length. They are somewhat rough on the upper surface.

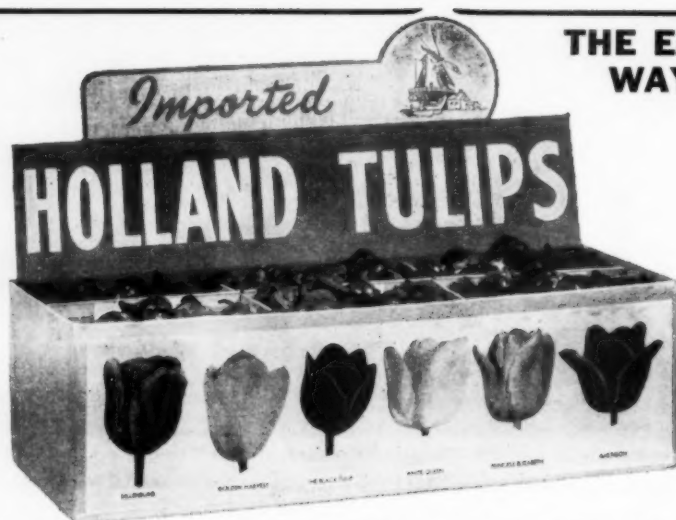
Based on limited observations this plant seems adaptable to a wide range of soil types; it transplants readily and requires little pruning. It is susceptible to the usual insects and diseases of English elms but because of its size, spraying can be easily accomplished.

*Ulmus carpinifolia umbraculifera* can be used to good advantage in narrow tree lawns, street planting under low utility lines and as a small specimen tree for lawn planting. This is a small tree that is well worth growing and using. L. C. C.

WALTER E. CAMPBELL, horticulturist, Greensboro, N. C., recently returned home from the hospital and is recuperating from an attack of double pneumonia and a thrombosis which hospitalized him for five weeks. On orders from his doctor, he is closing out his business. He intends to take up plant breeding as a hobby.

A NEW nursery is being started by Robert Bocknor, at Elmhurst, Ill. His stock consists mainly of ornamental and dwarf fruit trees.





## THE EASY - - - PROFITABLE WAY TO SELL TULIPS

### WILLIS NEW TULIP DISPLAY BOXES

#### BULBS IMPORTED FROM HOLLAND

This enormously popular box has been entirely redesigned to make it more attractive than ever.

The size of the box has been increased to hold twenty-five dozen (300) bulbs. The price remains proportionally the same — only \$13.50 per box F.O.B. Ottawa.

**Holds More Bulbs — More Profit For You**  
**Always a Sellout — Don't Delay Ordering**

#### 25 Dozen (300) FIRST SIZE DUTCH TULIP BULBS

in 6 most popular varieties:

**Bartigon**, bright red.  
**Golden Harvest**, yellow.

**Dillenburg**, salmon-orange.  
**Princess Elizabeth**, pink.

**The Black Tulip**, darkest shade.  
**White Queen**, pure white.

Packed in a strong, sunny-yellow display box, beautifully embossed and decorated in bright attention-getting red. Shows up wonderfully in both daylight and artificial light.

**COST** — \$13.50 per box, F.O.B. Ottawa, Kan.

**SELL** — \$25.00 to \$30.00 (10c each or as low as \$1.00 per dozen).

**MARKUP** — 45% to 55% (based on selling price).

Box 9 1/4 x 6 x 20 ins. Takes only 195 square inches of counter space.

**DELIVERY** — September.

**SELLING SEASON** — September to December.

**PICTURES** — Full-color pictures on the box illustrate each variety.

**DISPLAY** — Just open the box and place on counter.

**PLANTING INSTRUCTIONS** — Enough for every customer.

**REFILLS** — Available to display box customers at \$4.25 per 100, in multiples of 50 of a variety.

### THE WILLIS NURSERY CO.

Send for complete list of bulbs and nursery stock.  
"Your Wholesale Nurserymen" OTTAWA, KAN.

#### NEW ALL-AMERICA GROUP IS ORGANIZED

All-America Chrysanthemum Selections is the fifth and newest All-America organization, established for the preintroductory testing and screening of horticultural varieties of chrysanthemums.

Although the organization was established formally only recently, first year trials of chrysanthemums actually were started the past spring following a preliminary meeting of the group so that chrysanthemum winners may be determined as soon as possible, probably for 1956 introduction.

All types of outdoor, hardy chrysanthemums are eligible in the trials, and any person, firm or institution in the United States or possessions may enter new originations or prospective introductions in the trials, whether or not they are members of All-America Chrysanthemum Selections.

To enter the 1955 tests it is necessary to dispatch 10 rooted plants to each of the present 10 testing locations. Additional test gardens will be added to represent other climatic and geographic sections as acceptable judges and trial grounds may be chosen. Prospective entrants should

contact the executive secretary, W. Ray Hastings, Box 675, Harrisburg, Pa., for entry application forms, rules and regulations governing the trials procedure and cooperative introduction of award winners.

Officers of the new organization, elected at a recent meeting, are president, Glen J. Davis, R. M. Kellogg Co., Three Rivers, Mich.; vice-president, Carl Lumry, Mount Arbor Nurseries, Shenandoah, Ia., and executive secretary-treasurer, Mr. Hastings.

The annual meeting of All-America Chrysanthemum Selections will henceforth be held each January at Chicago.

**EVANS & REEVES NURSERIES**, Los Angeles, held their fifth annual fuchsia festival at the nurseries at 255 Barrington avenue recently. Among those who served as judges for the most appropriate names for the new specimens were Fred Roewekamp, Dr. Vernon T. Stoutemyer, Raymond Page and Hugh Evans.

**GARDEN CITY**, Thompsonville, Conn., is a nursery opened the past spring by Edward H. Wojnar. The firm specializes in evergreens, shrubs, fruit trees and shade trees.

## FALL SURPLUS

	Choice Stock	Per 100
25 Azalea Canescens,		
18 to 24 ins.	.....	\$250.00
50 Beech, Tricolor, 2 to 3 ft.	.....	475.00
125 Cedrus Atlantica Glauca,		
12 to 18 ins.	.....	150.00
100 Cedrus Libani, hardy,		
12 to 18 ins.	.....	150.00
200 Cladrastis Lutea, 2 ft., XX.	.....	75.00
100 Dogwood, Pink, 2 to 3 ft.	.....	225.00
100 Eucalyptus Alatus Compactus,		
2 ft.	.....	150.00
75 Hornbeam, Fastigate,		
3 to 4 ft.	.....	475.00
100 Ilex Crenata, 15 to 18 ins.	.....	150.00
100 Ilex Crenata Helleri,		
10 to 12 ins.	.....	175.00
20 Linden, Silver, 2 to 4 ft.	.....	300.00
500 Maple, Japanese Red,		
finest color, 1-yr., S.	.....	12.00
100 Pieris Japonica, 15 to 18 ins.	.....	200.00
40 Rhododendron Carolinianum,		
18 to 24 ins.	.....	300.00
200 Viburnum Carlesii, 3-yr., X.	.....	35.00
30 Viburnum Fragnans,		
3 to 4 ft.	.....	350.00
25 Washington Thorn, 4 to 5 ft.	.....	3.90
25 Magnolia Lemoinei Alba,		
2 to 4 ft.	.....	4.00
20 Cryptomeria Lobbi, 2 to 3 ft.	.....	4.00
150 Yews, mixed types,		
16 to 24 ins.	.....	3.00

Cash with order; 25 at 100 rate.

**BRIMFIELD GARDENS NURSERY**  
245 Brimfield Rd.  
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**NORTHERN COLLECTED EVERGREENS**  
**FERNS**  
**PLANTS**  
**SHRUBS**  
**WILLIAM CROSBY HORSFORD**  
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## Coming Events

### MEETING CALENDAR

September 17 and 18, Louisiana State Horticultural Association, Nurserymen's Section, Southwestern Louisiana Institute, Lafayette, La.

September 23, fall meeting, Western Pennsylvania Nurserymen's Association, Hotel Webster Hall, Pittsburgh, Pa.

October 1 to 3, Texas rose festival, Tyler, Tex.

November 6 to 8, Florida Nurserymen and Growers Association, trade meet, Fort Harrison hotel, Clearwater, Fla.

November 11 and 12, Holly Society of America, fall meeting, Millville, N. J.

### TEXAS ROSE FESTIVAL

The 17th floral extravaganza to be held at Tyler, Tex., the annual Texas rose festival, will take place October 1 to 3, with nurserymen promising an outstanding display. The coronation of the rose queen, Joanne Miller, of Tyler, will open the 3-day pageant.

Gov. Allan Shivers will lead the list of notables who, with famous rose fanciers, will join an estimated 200,000 persons expected at the event.

Highlighting the affair will be a parade, hailed by officials as the biggest in history, which will include 21 rose-bedecked floats and 35 bands. A million rose blooms will be displayed in flower exhibits at the rose show, which will be held at the Garden Center building. The new 1955 All-America roses, Tiffany, Queen Elizabeth and Jiminy Cricket, will be emphasized in rose arrangements.

### FLORIDA TRADE MEET

The Florida Nurserymen and Growers Association will hold a trade meet November 6 to 8 at the Fort Harrison hotel, Clearwater, Fla.

Landscape displays, designed to demonstrate the tremendous potential uses of many plant materials, will be a feature of the meet. The public will be invited to view the displays on one afternoon.

Jesse Johnson, Seminole Nurseries, Largo, is chairman of the trade meet committee.

### PENNSYLVANIA SPEAKER

The featured speaker at the fall meeting of the Western Pennsylvania Nurserymen's Association, to be held September 23 at the Hotel Webster Hall, Pittsburgh, Pa., will be Bert H. Kleinmaier, Burwell Nurseries Co., Columbus, O. His topic will be "Markup and Sales."

## VERMEULEN LINERS

Fall, 1954 — Complete New Catalog on Request

50 at 100 rate — 500 at 1000 rate — Less than 50 add 20 per cent

	Each per 100	Each per 1000
<b>ACER PALMATUM ATROPURPUREUM</b> (Japanese Red Maple)		
2-yr., X, 4 to 6 ins.	\$0.30	\$0.18
2-yr., X, 6 to 9 ins.	.25	.22½
2-yr., 2½-in. pot, 4 to 6 ins., heavy	.30	.27
6 to 12 ins., XX, bed run.	.65	.60
<b>AZALEA HINO-CRIMSON</b> , hardy, nonfading		
8 to 12 ins., XX, true color, orange, red, yellow	.90	
<b>CORNUS FLORIDA RUBRA</b> (Pink-flowering Dogwood)		
1-yr., G., X, 6 to 12 ins.	.75	
<b>CRATAEGUS OXYACANTHA PAULI</b> (Paul's Scarlet Hawthorn)		
1-yr., G., X, 6 to 12 ins.	.90	
<b>ILEX CRENATA</b> (Japanese Holly)		
2-yr., XX, 6 to 12 ins.	.35	
<b>ILEX CRENATA CONVEXA</b> (BULLATA)		
1-yr., 2½-in. pot.	.25	.22½
3-in. pot, heavy	.35	.32½
6 to 12 ins., XX, field	.75	
<b>ILEX CRENATA LATIFOLIA</b> (Bigleaf Japanese Holly)		
3-in. pot, heavy	.35	.32½
<b>ILEX CRENATA ROTUNDIFOLIA</b> (Roundleaf Japanese Holly)		
1-yr., 2½-in. pot.	.25	.22½
3-in. pot, heavy	.35	.32½
<b>ILEX GLABRA</b> (Inkberry)		
3-in. pot	.30	
<b>LABURNUM VULGARE</b> (Golden-chain)		
1-yr., S.	.07½	.06½

### CALIFORNIA PRIVET

Extra-nice stock—grown on our clay-loam bottom land. Real heavy canes. The 3½ to 4½-ft. plants were cut back spring, 1953 and root-pruned spring, 1954. You should see them—they are READY-MADE HEDGES.

12 to 18 ins., 2 canes	.06	.05
12 to 18 ins., 3 canes and up	.08	.07
18 to 24 ins., 3 canes and up	.11	.10
2½ to 3 ft., 5 canes and up, heavy	.17½	.15
3½ to 4½ ft., 5 br. canes and up, heavy, root-pruned (no shipping)	.25	.22½

<b>MAGNOLIA SOULANGEANA</b> (Saucer Magnolia)		
3-in. pot, 8 to 15 ins.	.65	
<b>PRUNUS LAUROCERASUS SCHIPKAENSIS</b> (Hardy Laurel Cherry)		
3-in. pot	.40	
<b>PRUNUS THUNDERCLOUD and YESUIUS</b> (Purpleleaf Plum)		
3 to 4 ft.	.75	
<b>PYRACANTHA COCCINEA LALANDI</b> (Laland Firethorn)		
<b>RHODODENDRON ENGLISH ROSEUM</b> , dark rose-pink		
<b>RHODODENDRON ENGLISH ROSEUM</b> , dark rose-pink		
1-yr., X, from cuttings, soil ball	1.25	
<b>RHODODENDRON HYBRIDS—CARACTACUS, crimson—</b>		
<b>CATAWBIENSE ALBUM</b> , white—F. D. GODMAN, red		
2-yr., G., 3½-in. pot, 10 to 15 ins., br.	1.85	
<b>RHODODENDRON HYBRID SEEDLINGS</b> , red		
4 to 6 ins., XX, soil ball	.30	
<b>SYRINGA</b> (French Hybrid Lilac), 21 varieties, single and double, all colors		
1-yr., G., X, 6 to 15 ins., our selection, labeled	.27	.25
1-yr., G., X, 6 to 15 ins., your selection, send for list	.30	

### TAXUS ROOTED CUTTINGS

7500 or more strong rooted cuttings from sand, 4 to 10 ins. Cuspidata, capitata (tips), brevifolia, densaformis, intermedia, vermeulen, hatfieldi, hicksi, kelsoyi, verticalis. Must make room for new lot.  
TAKE THEM ALL FOR \$68.50 per 1000! (regularly \$95.00 per 1000)

<b>TAXUS CUSPIDATA (CAPITATA)</b>		
9 to 12 ins., XX, S.	.50	.45
12 to 15 ins., XX, S.	.60	.55
15 to 18 ins., XX, S.	.75	
<b>TAXUS CUSPIDATA DENSIFORMIS</b>		
2-yr., X, 5 to 10 ins.	.30	.27½
<b>TAXUS MEDIA HATFIELDI</b> (Upright Hatfield Yew)		
2-yr., X, 6 to 10 ins.	.30	.27½
<b>TAXUS MEDIA VERTICALIS</b> , new. Tall, narrow and hardy. Send for descriptions. Grandifolia, pyramidalis, robusta, stricta and viridis.		
2-yr., X, 5 to 10 ins.	.35	.32½

### VERTICAL YEWS — Tall, Narrow, Hardy

1000 or more, twice transplanted, field-grown, now heeled in, 8 to 24 ins. We haven't the time to line these out so here's your chance to save. Flushing, grandifolia, pyramidalis, robusta, stricta and viridis. Send for descriptive catalog.

TAKE THEM ALL FOR \$70.00 per 100! (regularly \$75 to \$110 per 100)

<b>THUJA OCCIDENTALIS</b> (American Arborvitae)		
12 to 15 ins., X.	.15	.12½
15 to 18 ins., X.	.20	.17½
<b>TSUGA CANADENSIS</b> (Canadian Hemlock)		
4 to 6 ins., X.	.20	.17½
6 to 8 ins., X.	.25	
<b>VIBURNUM DENTATUM</b> (Arrow Wood Viburnum)		
1-yr., S., 6 to 12 ins.	.07½	.06
<b>VIBURNUM DILATATUM</b> (Linden Viburnum)		
1-yr., S., 4 to 6 ins.	.06	.04
1-yr., S., 6 to 12 ins.	.07½	.06
<b>WISTARIA SINENSIS BLUE</b> (Blue Chinese Wistaria)		
1-yr., S., 6 to 12 ins., strong	.07½	.06

**JOHN VERMEULEN & SON, Inc.**  
NESHAN STATION, N. J.



# Pennsylvanians Hold Picnic

By R. P. Meahl

More than 200 nurserymen and their wives attended the summer meeting of the Pennsylvania Nurserymen's Association held at Musser Forests, Indiana, Pa., Tuesday, August 17.

The meeting was essentially an outing for fellowship and recreation. Fred and Dorothy Musser and their entire staff went all out to see that everyone had a good time. The day was spent in touring the extensive plantings and inspecting the young stock, propagating units and other features of the company. Boating and swimming in a 35-acre lake were also enjoyed by many.

At noon a sumptuous box lunch was served in the packing building and the evening banquet was held at the Eagles' home, at Indiana.

Pennsylvania President Albert F. W. Vick, Vick's Wildgarden, Gladwyne, presided at a brief business meeting. John M. Eisler, Eisler's Nurseries, Butler, reporting on the American Association of Nurserymen's recent meeting, said there were plans to raise the minimum national dues from \$15 to \$25 but he stressed the importance of belonging to A. A. N. and gave assurance that all members receive many times the value of the dues from membership.

Jesse R. S. Flory, P. N. A. vice-president, LaBars' Rhododendron Nursery, Stroudsburg, gave a report on the National Landscape Nurserymen's Association meeting, held with that of the A. A. N. in July. He told of the educational meetings and the round-table discussions, emphasizing those on polyethylene in the packing of nursery stock and the selling of nursery material. One of the points brought out was the need for smaller plants to use in modern landscape design.

## Merger Plans Progress

Reporting for the merger committee, Louis E. Wissenbach, Squirrel Hill Nursery, Pittsburgh, told of the many meetings which the committees of the P. N. A. and the Western Pennsylvania Nurserymen's Association have held during the past two years. They found no great differences between the two organizations and those that were found have all been worked out so that it is expected the merger of the Pennsylvania association and the Western Pennsylvania association will be completed by February of next year.

Robert Hood, Thomas B. Meehan Co., Dresher, chairman of the public relations committee, urged the use of the metal "Plant Pennsylvania" signs which can be attached to nursery trucks and cars.

Al Vick explained the composition of the Horticultural Council. It is made up of representatives of all the horticultural industries of the state, and its function is to advise and counsel with the department of horticulture of Pennsylvania State University to bring about the most effective utilization of the university's services to Pennsylvania horticulture.

The place and dates of the winter meeting were announced as York, Pa., February 9 and 10, 1955.

JOINT winners of the 1954 national award for outstanding research in floriculture given by the Society of American Florists and the Foundation for Floriculture are Dr. Max E. Brunk, professor of marketing in agricultural economics at Cornell University, and Robert Hampton, assistant in the department.

HOWARD DOMAN, Willis Nursery Co., Ottawa, Kan., is recuperating from a broken foot suffered when he fell off a ladder while painting during his recent vacation. He has remained on the job in spite of his handicap.

## GUARANTEED-TO-LIVE TRANSPLANTED EVERGREENS

	Per 1000
American Arborvitae, 4-yr. transplants, (2-2), 4 to 8 in.	\$65.00
Balsam Fir, 4-yr. transplants, (2-2), 4 to 6 in.	65.00
Austrian Pine, 3-yr. transplants, (2-1), 3 to 5 in.	50.00
Red Pine, 4-yr. transplants (2-2), 4 to 10 in.	65.00
Red Pine, 3-yr. transplants (2-1), 3 to 5 in.	50.00
Scotch Pine, 4-yr. transplants, (2-2), 5 to 10 in.	60.00
Norway Spruce, 4-yr. transplants, (2-2), 4 to 8 in.	60.00

## SEEDLINGS

(Not Guaranteed)

Austrian Pine, 3-yr. seedlings (3-0) 5 to 10 in.	30.00
Red Pine, 3-yr. seedlings, (3-0), 5 to 8 in.	25.00
Scotch Pine, 3-yr. seedlings, (3-0), 8 to 10 in.	30.00
White Pine, 3-yr. seedlings, (3-0), 4 to 6 in.	25.00
Black Hill Spruce, 3-yr. seedlings, (3-0), 4 to 10 in.	35.00
Colorado Blue Spruce, 3-yr. seedlings, (3-0), 3 to 5 in.	45.00
Norway Spruce, 3-yr. seedlings (3-0), 3 to 6 in.	30.00
White Spruce, 3-yr. seedlings, (3-0), 4 to 8 in.	30.00

## TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

We believe that we grow and ship more transplanted evergreen trees than any other privately owned nursery in the country. Several other varieties of transplants available. Send for complete list of stock.

## OUR GUARANTEE

90 per cent of all transplants sold at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1955. (Seedlings not guaranteed.)



WESTERN MAINE FOREST NURSERY CO.

DEPT. AN-934

FRYEBURG, MAINE

"A friendly, efficient sales service"

## E. D. ROBINSON SALES AGENCY

38 S. Elm St. P. O. Box 247  
WALLINGFORD, CONN.

### Representing

Adams Nursery, Inc.  
Bristol Nurseries, Inc.  
Barnes Bros. Nursery Co., Inc.  
The Cheshire Nursery, Inc.  
Maxwell, Bowden & Rice, Inc.  
A. N. Pierson, Inc.  
Sunny Border, Inc.

Please refer to our ad  
in the July 15 issue  
for choice liners.

## SHADE TREES

### Nursery-Grown

We have available some of the Best-Grown Trees in the east, in large quantities.

QUERCUS palustris, 3 to 3½-in. and 4 to 5-in. cal.  
GLEDITSIA triacanthos, 3 to 3½-in., 4 to 5-in., 5 to 6-in. and 6 to 8-in. cal.  
PLATANUS acerifolia, 2 to 2½-in., 2½ to 3-in. and 3 to 3½-in. cal.  
ACER platanoides, 2 to 2½-in. and 4 to 5-in. cal.  
PINUS nigra, 4 to 5 ft. and 5 to 6 ft.  
PINUS strobus, 8 to 10 ft., 10 to 12 ft. and 12 to 14 ft.  
PINUS resinosa, 8 to 10 ft., 10 to 12 ft. and 12 to 14 ft.  
MALUS, in variety, 6 to 8 ft. and 8 to 10 ft.  
FRENCH HYBRID LILAC, 4 to 5 ft.

For quotations, mail us your want list. Your inspection invited.

## NORLEY NURSERIES

GARDINER, N. Y.

Telephone: New Paltz 2596

## POLYETHYLENE FILM FOR GREENHOUSES

Polyethylene, the plastic material now being used in propagation and as a plant wrap, is gaining recognition as a material for greenhouses. It has been found entirely successful both as an external covering for temporary greenhouses and an inner insulating barrier for existing glass greenhouses. In both cases, it has cut growing costs significantly.

With polyethylene as an outer covering, greenhouses are built over economically constructed temporary wooden frames for protection of plants during that part of the growing season when the weather is likely to become inclement. Users of this application report that the film transmits solar heat as well as glass, is easier to heat than glass and retains heat better. When plant protection is no longer needed, the greenhouse can simply be dismantled.

Excellent results obtained from using polyethylene as a greenhouse liner are reported by Ritter Gardens, Brielle, N. J. In the Ritter greenhouses, the film is in 108-inch sheets clamped together and covering the interior wall and ceiling space. Between four and six inches of dead air space is allowed between film and glass to provide an insulating barrier.

After lining greenhouses with some 75,000 square feet of polyethylene film, the firm cut heating costs by 25 to 30 per cent. The polyethylene film-equipped greenhouses require less fuel to raise the temperature. In fact, addition of the film raises the temperature by three degrees even in an unheated greenhouse. Plant shock was reduced because of the dead-air insulation barrier which provides a heat cushion eliminating a precipitate temperature drop at sundown.

Superior humidity retention reduced plant watering by as much as 50 per cent. This resulted in a savings in labor costs and water bills, improved plant growth and a significant saving in fertilizer cost effected by the fertilizer's not being washed away by continuous watering.

VAUGHAN'S SEED CO. 1954 spring flowering bulb catalog was distributed as part of the Chicago Sunday Tribune on August 29. Six full color pages were included in the 16-page, tabloid-size catalog presented as a special additional magazine section of the Tribune.

# POTTED LINERS

	Per 100	Per 1000
<i>Taxus media</i> Adams, 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	\$16.00	\$150.00
<i>Taxus media andersoni</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus media andersoni</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus media browni</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	18.00	160.00
<i>Taxus cusp. capitata</i> S., 3-yr., 2 1/4-in. r. pots, 3 to 6 ins.	22.50	200.00
3-yr., 2 1/4-in. r. pots, 4 to 8 ins.	27.50	250.00
3-yr., 2 1/2-in. r. pots, 6 to 12 ins.	30.00	275.00
<i>Taxus media capitata</i> , c.g.,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Taxus cuspidata</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus cuspidata</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus media hatfieldi</i> No. 18,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Taxus media hatfieldi</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	25.00	225.00
<i>Taxus media hicksi</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus media hicksi</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus intermedia</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus intermedia</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus media Moon's</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Taxus media Moon's</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	
<i>Taxus media thayerae</i> , 2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	22.50	200.00
<i>Taxus cuspidata vermeuleni</i> ,		
2-yr., 2 1/4-in. r. pots, 6 to 12 ins.	25.00	
<i>Taxus media wardi</i> , 1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	22.50	200.00
<i>Taxus media wellesleyana</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	
<i>Juniperus Andorra compacta</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Juniperus communis depressa aurea</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Juniperus glauca hetzi</i> , 1-yr., 2 1/4-in. r. pots, 4 to 8 ins.	20.00	180.00
<i>Juniperus fastigiata</i> , Irish,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	20.00	
<i>Juniperus chinensis pfitzeriana glauca</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	27.50	250.00
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	25.00	225.00
2-yr., 2 1/4-in. r. pots, 6 to 8 ins.	35.00	300.00
<i>Thuja occidentalis elegantissima</i> ,		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	18.00	160.00
<i>Thuja occidentalis pyramidalis</i> ,		
1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis wareana</i> (Siberian),		
1-yr., 2 1/4-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Thuja occidentalis woodwardi</i> ,		
1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	16.00	150.00
<i>Ilex crenata bullata</i> , 1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	22.50	200.00
<i>Ilex crenata hetzi</i> , 1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	22.50	200.00
<i>Ilex glabra</i> , 1-yr., 2 1/2-in. r. pots, 4 to 6 ins.	20.00	180.00
<i>Ilex crenata rotundifolia</i> ,		
1-yr., 2 1/2-in. r. pots, 6 to 8 ins.	22.50	200.00
<i>Ilex crenata Stokes Pat. 887</i> ,		
2-yr., 2 1/4-in. r. pots, 2 to 4 ins.	35.00	300.00

The above only a partial list of our potted lining-out stock. We also grow seedlings and field liners. A complete catalog on request.

**HEASLEY'S NURSERIES**  
Freeport Rd. BUTLER, PA.



*On their own roots*

## HYBRID RHODODENDRON LINERS

We are prepared to produce for you compact, beautifully branched, 10 to 12-in., hybrid rhododendron liners in all varieties, including the hard-to-root reds. These plants with root balls 6 to 8 ins. in diameter need no coddling. They are ready for lining out in the field where they will quickly grow into bushy, salable stock.

Using your cutting wood, we will stick the cuttings this fall and have your liners ready for delivery September 1, 1955. Let us know your requirements as soon as possible. Our propagating facilities are not unlimited. Prices as follows:

	Each
500 to 1000 .....	\$0.70
1000 to 3000 .....	.65
3000 to 5000 .....	.60
5000 to 10,000 .....	.55
Over 10,000 .....	.50

## RANDOLPH NURSERY

89 Babylon Turnpike

MERRICK, L. I., N. Y.

# BIG

We have one of the largest available supplies of big specimen material, including:

### ILEX OPACA

- TSUGA CANADENSIS
- GINGKO BILOBA
- ILEX BUXIFOLIA
- AZALEA
- TAXUS FASTIGIATA
- TAXUS REPANDENS
- TAXUS CUSPIDATA
- HYBRID RHODODENDRON

For 36 years  
one of America's  
leading nurseries



7817 York Road  
Towson 4, Md.

NURSERIES  
Cockeysville, Md.

## PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT

MILFORD

DELAWARE

## HEAVY EVERGREEN LINERS

Beds, twice transplanted,  
pruned, bushy:

2000 Spreading Yew, 12 to 15 ins.  
2000 Vermeulen Yew, 10 to 15 ins.

\$55.00 per 100; \$500.00 per 1000

Field, three times transplanted,  
sheared, pruned, very bushy:

1500 Spreading Yew, 12 to 18 ins.  
400 Vermeulen Yew, 12 to 18 ins.  
300 Kelsey Yew, 12 to 18 ins.  
750 Hatfield Yew, 12 to 18 ins.  
500 Hicks' Yew, 12 to 18 ins.  
250 Ilex convexa, 10 to 15 ins.  
500 Hemlock, 18 to 24 ins.

\$12.50 per 10; \$95.00 per 100

Prices F.O.B. northern New Jersey.  
Truck pickups can be arranged.  
Packed free for cash with order.

## KELSEY NURSERY SERVICE

(Est. 1878)

HIGHLANDS, N. J.

### LANDSCAPING SIZES

Colorado Blue Spruce, excellent shape, many good shiners, 2½ to 7 ft., B&B, \$2.00 per ft. Pyramidal Arborvitae, sheared and compact, 3½ to 7 ft., B&B, 80¢ per ft. Azalea Mollis (Red Flame), 9 to 24 ins. Also Pitters, Yews, Hemlocks.  
Stock via purchaser's truck.

SYLVANIA NURSERY & PEAT CO.

State Rt. 351

NEW GALILEE, PA.

## New York Arborists Hold Summer Meet

Approximately 45 New York arborists and their families attended the summer meeting of the New York State Arborists' Association, at White Sulphur Springs hotel, on Saratoga lake, New York, August 5 and enjoyed an excellent meeting, planned by Basil Jackson and his program committee.

Brunch at 10 a. m. started the events in good order and was followed by a series of demonstrations during the afternoon. Power saw exhibitions delighted the young, future arborists. The power tool demonstration proceeded smoothly, and A. C. Lamb took a tree down and off the road just as a shower came across the lake to send folks indoors for the summer meeting.

President Francis Larmore, United Tree Service, Inc., Schneckstad, introduced the members of the executive committee, Dewhirst Wade, Ira Wicks, Paul Crandall, Kenneth Painter and Dan Clower, substituting for Prof. George Matthysse, secretary-treasurer.

The objectives of the arborists for 1954 reviewed by Mr. Larmore were (1) to prepare legislation toward the licensing of professional arborists in New York; (2) to obtain at least 25 new members during 1954; (3) to locate the largest American elm in New York.

Mr. Wicks reported 10 new members and nine additional applications. The association then acted on the new applications, which brought the number of new members close to the expected total of 25.

The committee on finding the largest American elm gave a progress report. An entry blank was proposed and accepted, so that copies are now available for reports on likely trees. The first person reporting a specific tree and furnishing trunk circumference at four and one-half feet from the soil level will be considered the finder of the desired tree. The closing date of the research will be December 15, and winners in each county, as well as the state winners, will be announced at the winter meeting. Three entries are already in and include the Johnstown elm, at Johnstown, N. Y.

The major business centered on a discussion of the proposed act to license arborists operating in New York. Progress has been made, and, while some phases will still need rewording or phrasing, general agree-

ment was accorded to the present version, by Dewhurst Wade. Those attending the summer meeting favored proceeding with the proposal.

The meeting adjourned shortly before dinner. Mr. Lamb continued his equipment demonstration with a wood chipper. Disposal of pruning wood is a definite problem, and the wood chipper proved of interest to the group.

After a delicious meal, the group saw two movies on ticks and identified samples of slippery elm and American elm twigs. The formal program concluded at about 8 p. m., with many remaining to enjoy the attractions of Saratoga lake.

A. M. S. P.

### CHART PROVES SALES AID

Wayside Nursery, Indianapolis, Ind., is supplying free of charge a landscape planning chart to aid homeowners doing their own landscaping. The chart has proved an aid to sales as it enables customers to recognize their plant material needs. It is directed particularly to the middle-class homeowner who is cost-conscious.

The chart is standard 10-line graph paper mounted on 20-pound corrugated paperboard and bound with masking tape to form an improved drawing board. An insert carries simple instructions for laying out the premises under consideration. By letting each light line represent one foot and each heavy line 10 feet, homeowners can easily plot the buildings, drives and other permanent installations on their property to scale.

The homeowner is advised to take this sketch for consultation to his favorite nursery, preferably Wayside, where a nurseryman will sketch in with soft pencil his suggestions after acquainting himself with the customer's preferences. In practice it has been found that homeowners usually do not purchase all of their landscaping material immediately, but come back several times during the season, bringing their landscape planning charts along.

### ASH TREES FOR LAWNS

Reconsidering the ash trees as possibilities for street and shade planting, the August issue of the bulletin of popular information of the Morton Arboretum, Lisle, Ill., describes several small south European and western Asiatic species of *fraxinus*, growing at the arboretum though still in immature stages.

## DO YOU HAVE STOCK TO SELL?

### Supply Short

Another summer of dry weather, less severe in eastern areas but of drought proportions in the southwest, has hampered the production of nursery stock this season.

Some growers will be able to fill orders only on a pro rata basis, and their customers are looking for other sources to supplement their supply.

### Demand Strong

Home building, continuing at a high rate, supports the strong demand for nursery stock that has been experienced in recent seasons.

Consumer buying has shown no decline in the face of business adjustments in some areas, and autumn is expected to show an upturn in general trade activity.

Gardening interests a greater number of people than ever before, and their purchases of plants increase from season to season.

### Market Ready

If you have a specialty crop or a general line of stock for wholesale, you can turn into cash any part of it not already booked on orders. The American Nurseryman reaches nearly 9,000 trade buyers (paid subscribers). The cost of reaching them depends on the quantity of stock you have to sell, thus:

(1) Your complete price list can be published in one page or two or more pages, depending upon the number of items, at \$120.00 per page (less on term orders). Reprints can be supplied at cost for your mailing list or to answer inquiries.

(2) Specialty items or a short list can be offered in display advertising space—from 1 inch upwards—at \$4.00 per column inch per insertion (less on term orders).

(3) Staple items can be listed under suitable headings in the Classified advertisements at 35 cents per line (6 average words) per insertion. Note the increase in pages of these "liners" from issue to issue because trade buyers look them over to find their wants.

### Prompt Action

Mail your advertising copy now. You will receive orders from the American Nurseryman pages before you can prepare, plan, print and mail a circular—and the cost is much less!

Forms for the October 1 issue will be open until September 17 (classified ads until September 20).

Mail copy early—don't miss the big issue of autumn.

# AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.

# 15,000

## SPREADING AND UPRIGHT YEW

### TAXUS CUSPIDATA CAPITATA

(Japanese Upright Yew)

18 to 24 in., regular	\$2.50
2 to 2 1/2 ft., slender	2.50
2 to 2 1/2 ft., regular	2.75
2 1/2 to 3 ft., slender	2.75
2 1/2 to 3 ft., regular	3.50
3 to 3 1/2 ft., slender	3.50
3 to 3 1/2 ft., regular	4.00
3 1/2 to 4 ft., slender	4.75
3 1/2 to 4 ft., regular	6.00
4 to 4 1/2 ft., slender	6.75
4 to 4 1/2 ft., regular	8.00

### TAXUS CUSPIDATA

(Japanese Spreading Yew)

15 to 18 in.	\$2.50
18 to 24 in.	3.00

### TAXUS HICKSI

15 to 18 in.	\$2.25
18 to 24 in.	2.75
2 to 2 1/2 ft.	3.25

All stock has been treated and can be shipped outside the Beetle zone.

Prices F.O.B. Our Nurseries

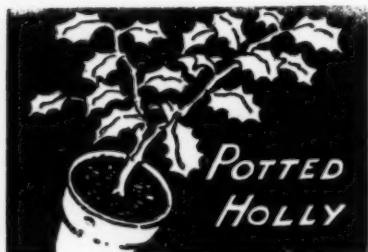
All stock sheared in spring or summer of 1954.

Telephone Fieldstone 7-3382

## WOODBOURNE CULTURAL NURSERIES, INC.

Office: 1200 Union Turnpike  
NEW HYDE PARK, N. Y.

Nurseries: Colonial Spring Rd.  
MELVILLE, L. I., N. Y.



### HARDY ILEX OPACA

We have choice named varieties which have been widely used by many eastern nurseries. Root-bound holly liners out of 3-in. pots or deep soil cans, from 6 to 10 ins. high. Also rooted cuttings. Ilex Cornuta Burfordi, Franklinia rooted cuttings, Arctostaphylos (Bearberry), out of 3-in. pots.

Taxus (varieties), 1 and 2-yr. We guarantee true to name and a reliable year-after-year source.

WRITE FOR CATALOG

HOLLY HAVEN, INC., Elizabeth C. White, Pres.  
WHITESBOG B, N. J.

## CHINESE CHESTNUTS

Hemming Strain Blight-Resistant Trees

Seed \$1.25 per lb.

\$100.00 per 100 lbs.

	Per 10	Per 100	Per 1000
12 to 18 ins.	\$2.50	\$22.50	\$200
18 to 24 ins.	3.50	32.50	300
2 to 3 ft.	6.00	55.00	500
3 to 4 ft.	7.50	70.00	650

Write for Trade List

EASTERN SHORE NURSERIES, INC.

Box 743

EASTON, MD.

## ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

## QUALITY MERCHANDISE AT REASONABLE PRICES

VANDEBROOK NURSERIES

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

## NEW PEACH DEVELOPED

Redglobe, a new peach variety, has been developed by the United States Department of Agriculture in cooperation with state and federal experiment stations and has been released for propagation by nurserymen.

High-colored, firm-fleshed peaches are often hard to obtain from vigorous-growing trees, especially with trees under the irrigation systems common to western growing areas. Agricultural research service horticulturists report that Redglobe gave particularly good results when tested in California and Washington. The new variety also showed promise in experiments in Texas and Michigan.

Redglobe's medium to large peaches have the bright, attractive color which is popular with consumers. About three fourths of the skin surface is covered with a bright red blush over a yellow background.

The flesh is firm, fine textured and of good flavor. Its firmness makes long-distance shipment practical and enables fruit to stand up longer under storage.

Redglobe trees are productive and vigorous with large, self-fertile blossoms. The new peach is suitable for areas where the Elberta peach is grown. It requires about the same winter temperatures as Elberta, but ripens about 15 days earlier. Redglobe is moderately susceptible to bacterial spot diseases, as is Elberta.

Growers and nurserymen interested in propagating Redglobe should write to Leon Havis, U. S. D. A. Plant Industry Station, Beltsville, Md., for information on budwood sources.

## CLEAN EQUIPMENT MEANS BETTER PEST CONTROL

More pest control failures are caused by faulty application than by insect resistance or inferior chemicals, according to Leland G. Merrill, Jr., extension specialist in entomology at Rutgers University. Mr. Merrill recommends careful cleaning to keep equipment most effective.

He suggests that a duster be cleaned by first removing all dust from the hopper, distributor, fan, tubes and nozzles. A few handfuls of dry sand tossed into the suction side of the fan will clean out stubborn particles. A protective coating of oil should be applied by tossing a mixture of kerosene with one-tenth part burnt oil into the suction side



# SHADE'S Central Pennsylvania Grown ROSES

2 years old, field-grown plants

## Fall, 1954 — WHOLESALE PRICE LIST — Spring, 1955

Place Your Order Now for Fall or Spring Delivery

### PRICES ON ALL STANDARD ROSES

No. 1...50c EACH No. 1½...40c EACH

#### TWO-TONE

COUNTESS VANDAL, Pink, copper, gold and salmon.

TEXAS CENTENNIAL, Vermilion-red and gold.

#### RED

CRIMSON GLORY, Deep velvety and crimson.

AMI QUINARD, Velvety crimson-maroon.

POINSETTIA, Bright scarlet.

McGREGG'S SCARLET, Scarlet-red.

#### YELLOW

ECLIPSE, Longbud and rich gold.

SOEUR THERESE, Double and rich yellow.

#### PINK

MME. COCHET-COCHET, Coppery-pink and reflected gold.

BETTY UPRICHARD, Salmon-pink.

EDITOR McFARLAND, Brilliant pink.

#### WHITE

K. A. VICTORIA, Snowy-white and double.

#### FLORIBUNDA

POULSEN BEIDER, Clear, rich pink.

RED RIFLES, Carmine-red.

#### CLIMBING ROSES

BLAZE, Bright red.

DOUBLOONS, Clear golden-yellow.

CITY OF YORK, Creamy-white.

### BROWNELL SUB-ZERO HYBRID TEA

A new race from hardier species. Wichuriana hybrids, that can bloom all summer along with the more tender hybrid teas. The originator reports flowers of equal merit in size, form, fragrance and color and plants many times longer lived even after sub-zero winters.

	Each	per 10	per 100
Each	10	100	

#### CURLEY PINK

Pat. No. 842—Retailers \$1.75 each

Many large two-tone pink blooms.

No. 1 ..... \$1.00 \$0.90 \$0.85

No. 1½ ..... .80 .72 .68

#### PINK PRINCESS

Pat. No. 459—Retailers \$1.75 each

Bud red, flowers deep pink.

No. 1 ..... 1.00 .90 .85

No. 1½ ..... .80 .72 .68

#### ORANGE RUFFLES

Pat. No. 1124—Retailers \$1.75 each

Ruffled orange to saffron-yellow.

No. 1 ..... 1.00 .90 .85

No. 1½ ..... .80 .72 .68

#### RED DECHES

Pat. No. 846—Retailers \$1.75 each

Hardy, rose-red flowers, fragrant.

No. 1 ..... 1.00 .90 .85

No. 1½ ..... .80 .72 .68

#### TERMS AND CONDITIONS OF SALE

Cash with order; packing at cost. Please order in multiples of 10 plants only.

### PATENTED ROSES

We offer these roses under license from patent owner. It is understood and agreed that they are for sale at retail only, at or above prices specified. 10 to 20 of one variety at 10 rate; 20 to 250 of one variety at 100 rate; 250 and up of one variety at 1000 rate. Prices are net.

	Each	per 10	per 100
Each	10	100	

#### BLANCHE MALLERIN

Pat. No. 594—Retailers \$2.00 each

Pure white, fragrant.

No. 1 ..... \$1.25 \$1.10 \$1.00

No. 1½ ..... .88 .80

#### DR. DEBAT

Pat. No. 961—Retailers \$2.00 each

Medium pink.

No. 1 ..... 1.25 1.10 1.00

No. 1½ ..... .88 .80

#### GOLDEN ANNIVERSARY

Pat. No. 806—Retailers \$1.75 each

Old gold color, flushed apricot.

No. 1 ..... 1.15 1.00 .87½

No. 1½ ..... .80 .70

#### GOOD NEWS

Pat. No. 426—Retailers \$1.75 each

Deep copper-pink to shell-pink.

No. 1 ..... 1.15 1.00 .87½

No. 1½ ..... .80 .70

#### PEACE

Pat. No. 591—Retailers \$2.50 each

Golden-yellow etched with pink.

No. 1 ..... 1.60 1.40 1.25

No. 1½ ..... 1.12 1.00

#### PENNSYLVANIA

Pat. No. 936—Retailers \$2.00 each

Soft apricot—orange—pink.

No. 1 ..... 1.25 1.10 1.00

No. 1½ ..... .88 .80

#### SUZON LOTHE

Pat. No. 934—Retailers \$2.50 each

Pearly-pink and white.

No. 1 ..... 1.60 1.40 1.25

No. 1½ ..... 1.12 1.00

#### COCORICO—Floribunda

Pat. No. 1193—Retailers \$2.00 each

Flashing scarlet.

No. 1 ..... 1.25 1.10 1.00

No. 1½ ..... .88 .80

#### IRENE OF DENMARK—Floribunda

Pat. No. 889—Retailers \$2.00 each

White.

No. 1 ..... 1.25 1.10 1.00

No. 1½ ..... .88 .80

#### MRS. INGE POULSEN—Floribunda

Pat. No. 1050—Retailers \$1.50 each

Pale amber and pink.

No. 1 ..... 1.00 .90 .75

No. 1½ ..... .72 .60

### WRAPPED ROSES

15c each above cost of individual rose.

Attractively packed in distinctive yellow,

red and blue waterproof bags, tops paraffine

waxed. Beautiful full-color picture label and

planting suggestions appear on each bag.

Terms and Conditions of Sale: Cash with order; packing at cost. Please order in multiples of 10 plants only.

### EVERGREENS

Landscape Material  
Twice Transplanted—Regularly Sheared  
No Boxing or Shipping  
Terms: Cash, E&B at the Nursery

	Each
1500 Juniperus Excelsa Stricta 15 to 18 ins.	\$1.50
4000 Juniperus Glaucus Hetzi 15 to 18 ins.	2.25
400 Retinospora Plumosa Aurea 18 to 24 ins.	2.75
350 Retinospora Squarrosa Veltchi 18 to 24 ins.	2.50
600 Taxus Cupidata 15 to 20 ins.	3.50
700 Taxus Cusp. Intermedia 15 to 18 ins.	3.50
1800 Taxus Media Hatfieldi 24 to 30 ins.	4.00
1200 Taxus Media Hicksi 18 to 24 ins.	3.50
650 Thuja Occidentalis Elegantissima 24 to 30 ins.	2.50
700 Thuja Occidentalis Globosa 15 to 18 ins.	2.75
500 Thuja Occidentalis Pyramidalis 36 to 38 ins.	3.00

### YOUNG SALABLE EVERGREENS

Grown three years in 15-inch rows planted 15 inches apart, under irrigation. Splendid young salable evergreens for the cash-and-carry trade of garden shops, roadside markets and nurseries.

500 Thuja Occidentalis Pyramidalis 24 to 30 ins.	1.50
1500 Thuja Occidentalis Pyramidalis 30 to 36 ins.	2.50
2500 Juniperus Chinensis Pfitzeriana 12 to 15 ins.	1.25
1500 Juniperus Excelsa Stricta 12 to 15 ins.	1.25
3000 Juniperus Glaucus Hetzi 12 to 15 ins.	1.25
6000 Taxus Cupidata 8 to 10 ins.	1.25
5000 Taxus Cusp. Intermedia 8 to 10 ins.	1.25
4000 Taxus Media Hicksi 10 to 12 ins.	1.00
2500 Thuja Occidentalis Elegantissima 18 to 20 ins.	1.50
1500 Thuja Occidentalis Globosa 10 to 12 ins.	1.00
1500 Thuja Occidentalis Wareana 15 to 20 ins.	1.50

SHIPPING—We request customers to give definite shipping instructions regarding manner in which they wish goods shipped. In the absence of special instructions we use our best judgment, but without assuming responsibility. All shipments travel at risk and expense of purchaser.

## SHADE'S NURSERY

4907 Orchard St.

Phone—Harrisburg 5-5417

HARRISBURG, PA.

5 Miles East of Harrisburg on U. S. Route 22

Member Pennsylvania Nurserymen's Association — American Rose Society

of the fan. This can be cleared in the spring by tossing sand into the suction side.

A sprayer will last longer and operate better if it receives fall cleaning. The hose should be removed and drained, and the ends should be plugged to keep out small animals. Nozzles and screens should be removed, cleaned in gasoline and stored in a bag attached to the sprayer. The pump should be drained, dried, oiled and stored in a dry place.

### LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

### DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

### FOR 52 YEARS

Our business has been growing

Rhododendrons

Azaleas

Perennials, Roses

All Nursery Items

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586 Paterson Ave.

E. RUTHERFORD, N. J.



# PIERIS JAPONICA

## (Andromeda)

The popularity of this plant is ever increasing, creating a demand that only few nurseries can supply. The plant sells on sight and its extensive use at flower shows increases the desire of plant lovers for it. It transplants easily, will grow in sun or shade and is attractive at all seasons.

Starting just with its lovely Lily-of-the-Valley-like flowers, often in bloom with icicles on them, it sometimes remains in bloom for a month. The new red foliage appears which turns light then dark green. The prominent racemes of light green flower buds form in the fall and are attractive all through the winter, useful in flower arrangements and can be readily forced.

The plants can be moved into beds now and often make three growths a year, so that you soon have a beautiful salable Pieris. Dug with small balls of earth surrounding them, they are incomparable for an evergreen planting. Our grading is very liberal.

Per 100  
4 to 6 ins., T. .... \$15.00  
6 to 8 ins., TT. .... 20.00

## ILEX BULLATA

6 to 8 ins., 2-yr., T. .... 15.00  
8 to 10 ins., T. .... 20.00

Send for List of Unusual Plants

**ALANWOLD NURSERY**  
NESHAMINY, Bucks Co., PA.

## SOUTHERN MEETING

[Continued from page 11]

growing in fields, some treated and some untreated with Crag herbicide. Over 150 species of ornamental plants were treated, with few found susceptible. This type of herbicide, used often for pre-emergence control, must be sprayed on land which is cleanly cultivated, he said. Its action kills small plants as they grow from seeds.

Horticulturists taking part in the weed control research were Dr. James A. Foret, professor of horticulture at Southwestern Louisiana Institute; Dr. Ray Self, of Alabama Polytechnic Institute, and Dr. L. C. Chadwick, of Ohio State University.

The speaker challenged the group to try chemical weed killers. He predicted a great saving in labor costs, with 20 men able to do work which required from 40 to 60 before use of the weed killers.

Dr. E. W. McElwee, of the University of Florida's agricultural extension service, who spoke Monday morning, said that Floridians spend considerably more per year for plants than do persons in other parts of the country.

"Seventy per cent of all flower production in Florida is out in the open, either under lath, cloth or in the open field," he said. "There are over 18,000 acres in nursery and flower crops, with 1,250,000 square feet of grass, most of which is for propagation."

Dr. McElwee said he thought local nurserymen might increase the sale of nursery plants by putting on home improvement drives.

In summarizing the work of his extension service, he said, "Our program is designed to push Florida ornamentals, grow a better product and have it used in any way we can."

## Marshall Speaks for A. A. N.

Vernon Marshall, of Arlington, Neb., vice-president of the American Association of Nurserymen, complimented the Southern association on its fine record of service to members and explained the work of the A. A. N. at the Tuesday morning session.

"The government is too big and too complicated to listen to individuals any more," he said. "It has a healthy respect for representatives of organized business, and our association is no exception."

Mr. Marshall discussed the fair trade practice rules, the first conference on which was held August 11, at Chicago and the second September 13, at San Francisco. The

## SPECIMEN LANDSCAPE MATERIAL

### Fine blocks of:

Arborvitae — American, Spiralis, Elegantissima, Ware and Globe, 2 to 12 ft.  
Hemlock, 3 1/2 to 7 ft.  
Ilex Convexa, 1 1/2 to 3 1/2 ft.  
Magnolia Lennei, 5 to 8 ft.  
Magnolia Soulangeana, 3 to 7 ft.  
Pieris Japonica, 1 1/2 to 3 1/2 ft.  
Pink Dogwood, 4 to 6 ft.  
Spreading Yews, 1 to 7 ft.  
Upright Yews, 2 to 7 ft.

We most cordially invite you to visit us and inspect these and other materials.

## ANGELICA NURSERIES

Growers of Fine Plants

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## BENCH CUTTINGS

	Per 100	Per 1000
Juniper, Irish .....	\$10.00	\$ 90.00
Retinospora Pisifera .....		
Plumosa .....	10.00	90.00
Taxus Cuspidata Spreading .....	10.00	90.00
Taxus Cuspidata Upright, tips .....	11.00	100.00
Taxus Media .....	10.00	90.00
Taxus Media Brevifolia .....	10.00	90.00
Taxus Media Brevifolia Nana .....	10.00	90.00
Taxus Media Hatfieldi .....	9.00	80.00
Taxus Media Hickii .....	10.00	90.00
Taxus Media Densiformis .....	10.00	90.00
Thuja Occidentalis Compacta .....	12.50	110.00
Thuja Occidentalis Globosa Nova .....	12.50	110.00
Thuja Occidentalis Nigra .....	11.00	100.00
Thuja Occidentalis Parsons Globe .....	10.00	90.00

## BROUWER'S NURSERIES

Box 25 NEW LONDON, CONN.

## GROWERS

EVERGREEN TREE LINING-OUT STOCK

For Fall, 1954

SUNCREST EVERGREEN NURSERIES

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Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

## DEL-MAR-VA NURSERIES

Growers of Quality

Taxus, Ilex and other Ornamentals.

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third is set for September 28, at New York. "After these industry-wide conferences are over, the federal trade commission will then take over and study the records of the proceedings along with the recommendations of the industry committee and then will itself put out a statement as to a final set of rules which will be again discussed by the industry at a later date," Mr. Marshall explained.

He also spoke of recent court action in two cases involving falacious and unfair advertising in which the A. A. N. was active and mentioned the "Plant America" program with emphasis on the industrial landscaping competition. He declared that the competition was "one of the most outstanding and successful product promotion programs that any trade association has ever attempted, including the multimillion-dollar program of the American Meat Institute."

A breakfast was given Tuesday morning for A. A. N. members.

#### Women's Activities

Many of the nurserymen brought their wives to the convention, and several separate functions were planned for their entertainment. They attended the Sunday night cocktail party, had luncheon Monday noon in the hotel's Camellia room (this glamorous room was much approved of by the nurserymen who raise camellias), received orchid corsages at the banquet and dance Monday evening, enjoyed a separate trip through the naval air station with luncheon at the swank Officers' Club and joined the men for the barbecue Tuesday evening, final event of the convention.

Among those who took a prominent part in the convention business and fun were G. W. Pringle, Leesburg, Fla.; Hugh Lalor, Miami, president of the Florida Nurserymen and Growers Association; Tom Dodd, Sr., Semmes, Ala.; C. H. Brannon, Raleigh, N. C., state entomologist; Ed Ayres, Gainesville, Fla., state plant board, and B. P. Livingston, Montgomery, Ala., chief Alabama inspector.

GARDEN structures are discussed in the articles that compose the summer, 1954, issue of *Plants & Gardens*, quarterly publication of the Brooklyn Botanic Garden, Brooklyn 25, N. Y. Illustrations of the work of leading landscape architects accompany the articles on paved terraces, walks and paths, steps, walls, fences, pools, arbors and fireplaces.

## FALL, 1954 — SPRING, 1955 Seedlings, etc.

	Per 100	Per 1000
<i>Abies concolor</i> , 2-yr., S., 3 to 6 ins.	\$10.00	...
<i>Acer palmatum</i> , 1-yr., S., 3 to 6 ins.	6.00	\$ 50.00
5000 and under, 1-yr., S., 3 to 6 ins.	5.00	40.00
<i>Acer rubrum</i> , 2-yr., S., 6 to 12 ins.	6.00	...
<i>Acer saccharum</i> , 2-yr., S., 12 to 15 ins.	8.50	...
<i>Amelanchier canadensis</i> , 1-yr., S., 8 to 12 ins.	8.50	75.00
<i>Berberis thunbergii atropurpurea</i> , 2-yr., S., 12 to 18 ins.	5.00	...
<i>Crataegus cordata</i> , 1-yr., S., 6 to 10 ins.	7.50	65.00
<i>Crataegus crusgalli</i> , 1-yr., S., 3 to 6 ins.	10.00	85.00
<i>Euonymus alatus</i> , 2-yr., S., 4 to 8 ins.	10.00	...
<i>Fagus sylvatica</i> , 1-yr., S., 6 to 10 ins.	7.50	65.00
<i>Hamamelis japonica</i> , 1-yr., S., 3 to 4 ins.	6.00	50.00
<i>Ilex crenata</i> , 2-yr., S., 4 to 8 ins.	5.00	40.00
<i>Ilex crenata convexa</i> , 2-yr., S., 3 to 6 ins.	7.50	65.00
<i>Ilex glabra</i> , 2-yr., S., 6 to 8 ins.	15.00	125.00
<i>Ilex verticillata</i> , 1-yr., S., 4 to 8 ins.	8.00	...
<i>Juniperus virginiana</i> , transplanted understock	10.00	85.00
<i>Laburnum anagyroides</i> , 1-yr., S., 6 to 8 ins.	5.00	40.00
<i>Picea glauca</i> , 2-yr., S., 3 to 6 ins.	7.50	65.00
<i>Picea pungens glauca</i> , 3-yr., S., 6 to 12 ins.	10.00	...
<i>Pinus aristata</i> , 4-yr., S., 4 to 6 ins.	7.50	65.00
<i>Pinus mughus</i> (True dwarf Tyrolean), 3-yr., S., 4 to 6 ins.	6.50	60.00
<i>Pinus mughus</i> (True dwarf Tyrolean), 4-yr., S., 6 to 10 ins.	7.50	65.00
<i>Pinus strobus</i> , 3-yr., S., 6 to 10 ins.	6.00	50.00
<i>Pinus thunbergii</i> , 2-yr., S., 3 to 6 ins.	4.00	35.00
<i>Pseudotsuga taxifolia glauca</i> , 2-yr., S., 3 to 6 ins.	5.00	40.00
<i>Pseudotsuga taxifolia glauca</i> , 3-yr., S., 6 to 12 ins.	8.00	75.00
<i>Sorbus aucuparia</i> , 2-yr., S., 6 to 12 ins.	6.00	50.00
<i>Taxus cuspidata</i> , 2-yr., S., 3 to 6 ins.	12.00	100.00
<i>Tulja orientalis</i> , transplanted understock	7.50	65.00
<i>Tsuga canadensis</i> , 3 to 12 ins., T.	20.00	...
<i>Viburnum cuneifolium</i> , 2-yr., S., 4 to 8 ins.	15.00	...
<i>Viburnum lantana</i> , 2-yr., S., 4 to 8 ins.	7.50	60.00
<i>Viburnum setigerum</i> , 1-yr., S., 4 to 8 ins.	12.50	100.00

\*Five-needle pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

### Well-established cuttings from 2 1/4-in. pots.

	Per 10	Per 100
<i>Chamaecyparis cyano viridis</i>	\$2.25	\$17.50
<i>Euonymus carrierei</i>	2.25	17.50
<i>Euonymus patens</i>	2.25	17.50
<i>Euonymus vegetus</i>	2.25	17.50
<i>Ilex crenata convexa</i>	2.25	17.50
<i>Ilex crenata helleri</i>	2.25	17.50
<i>Ilex crenata microphylla</i>	2.25	17.50
<i>Ilex crenata rotundifolia</i>	2.25	17.50
<i>Ilex glabra</i>	2.25	17.50
<i>Juniperus glauca hetzi</i>	2.25	17.50
<i>Juniperus horizontalis Bar Harbor</i>	2.25	17.50
<i>Juniperus pfitzeriana</i>	2.75	22.50
<i>Juniperus pfitzeriana nana</i>	2.75	22.50
<i>Juniperus sargentii</i>	2.75	22.50
<i>Mahonia bealei</i>	2.50	20.00
<i>Taxus baccata repandens</i>	2.25	17.50
<i>Taxus cuspidata aurea</i>	2.75	22.50
<i>Taxus cuspidata capitata</i>	2.75	22.50
<i>Taxus cuspidata nana</i>	2.25	17.50
<i>Taxus cuspidata F &amp; F compacta</i>	2.25	17.50
<i>Taxus cuspidata densiformis</i>	2.25	17.50
<i>Taxus media browni</i>	2.25	17.50
<i>Taxus media clifforti</i>	2.25	17.50
<i>Taxus media halloran</i>	2.25	17.50
<i>Taxus media hatfieldi</i>	2.25	17.50
<i>Taxus media henryi</i>	2.25	17.50
<i>Taxus media hicksii</i>	2.25	17.50
<i>Taxus media Moon's columnaris</i>	2.25	17.50
<i>Taxus media nana</i>	2.25	17.50
<i>Tulja occidentalis globosa</i>	2.25	17.50
<i>Howe type</i>	2.25	17.50

DUE TO HANDLING COSTS, ORDERS FOR LESS THAN \$5.00 CANNOT BE ACCEPTED.

#### TERMS

Prices in this list are net cash F.O.B. Mountain View, N. J., but the usual terms will be extended to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order. Five of one kind will be billed at the 10 rate; 25 at the 100 rate; 250 at the 1000 rate. From those not acquainted with our stock, a trial order will be appreciated. Packing extra at cost.

**HESS' NURSERIES MOUNTAIN VIEW, N. J.**

## NOTICE OF CLOSE-OUT SALE

Bed-grown *Rhododendrons*—*carolinianum*, *catawbiense* and *maximum*—and *Leucothoe*. Could be used for immediate fall sale. Approximately 3,000 plants up to 24 ins. Interested in selling entire lot. No reasonable offer refused. Send your representative to make offer. Also available approximately 200 *hybrid lilacs*, up to 5 ft. Terms: cash only. Write or phone for appointment.

**LOUIS A. HINDLA**

Sayville 4-2469-J

**BOHEMIA, N. Y.**

## LINING-OUT STOCK

	Each	Each
	per	per
	100	1000
<i>Ilex crenata</i> , 2-yr., S., 4 to 6 ins. ....	\$0.05	
1-yr., S., 2 to 4 ins. ....	.03	
3-yr., T., field beds, 6 to 8 ins. ....	\$0.30	.25
<i>Ilex convexa</i> , 3-yr., T., field beds, 6 to 9 ins. ....	.35	.30
<i>Juniperus pfitzeriana glauca</i> , 3-yr., T., field beds, 8 to 10 ins. ....	.35	.32
<i>Taxus cuspidata</i> , 3-yr., T., field beds, 8 to 10 ins. ....	.35	
2-yr., T., field beds, 6 to 8 ins. ....	.25	
<i>Taxus hicksi</i> , 2-yr., T., field beds ....	.25	

Cash with Order. Free Packing.

## BROOKFIELD GARDENS

U. S. Rt. 46

DELAWARE, N. J.

## PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$4.25 per 100 parcel post prepaid. \$35.00 per 1000; \$32.50 per 1000 for 10,000 or more in same shipment. Available for prompt shipment—late March through November. Shipments anywhere, including Canada.

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### PRINCETON NURSERIES

A very complete line of  
Quality Ornamental Stock.

Come to see us.

Send us your Want List.

Write for catalog.

**PRINCETON NURSERIES**

Ph. Princeton 1-1776 PRINCETON, N. J.

### CANADIAN HEMLOCKS

Fall and spring delivery. Beautiful,  
heavy, sheared material.

B&B

	Each	Each
	Per 10	Per 100
2 to 3 ft. ....	\$4.25	\$4.00
3 to 4 ft. ....	5.50	5.00

LINERS

	Per 100	Per 1000
4-yr., T. ....	\$45.00	\$400.00
6-yr., TT. ....	75.00	650.00

**LEGHORN'S EVERGREEN NURSERIES**  
Geer St. CROMWELL, CONN.

### HOLLIES

One of the most complete collections  
of the better named evergreen hollies in  
the country.

American  
English

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Available in three to six-inch pots.  
Send for Trade List.

### ANGELICA NURSERIES

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### Trees, Evergreens, Shrubs Fruit Trees

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### TAXUS

Upright, 4 to 14 ft.

Truckloads only, no boxing.

**BULK'S NURSERIES**

BABYLON, L. I., N. Y.

## West Virginia Meet

By F. Waldo Craig

The West Virginia Nurserymen's Association held its 16th summer meeting, August 5 to 7, in the Community building at White Sulphur Springs, W. Va.

In the business sessions of the meeting, new officers were elected as follows: President, Carson Turner, LaBars' Rhododendron Nursery, White Sulphur Springs; vice-president, Al Peters, and secretary-treasurer, F. W. Craig, state department of agriculture, Charleston.

A. G. Smith, Jr., associate professor of floriculture at the Virginia agricultural experiment station, at Blacksburg, Va., gave a speech on roses to an audience which contained many local garden club members. In addition, Mr. Smith showed many beautiful slides of roses in different situations to stress the importance of trying to avoid radical pruning, extremely wet grounds, too much shade, carpenter bees and frost. At the conclusion of his talk, Mr. Smith answered questions on spraying, fertilizing and watering of roses.

On the morning of August 6, William Howe, Howe Nurseries, Pennington, N. J., discussed his experiences in retail marketing. Through shrewd business manipulation, Howe Nurseries were able to survive the depression of the early '30's and since that time have converted the majority of their business from a wholesale basis to retail plant sales lots. Mr. Howe thoroughly discussed plant merchandising through plant marketing lots and offered many timely and important suggestions. Emphasis was placed on marketing prices on the plants, good display and conditions, trained personnel to answer questions of the customers and pushing sales the year around. Also, Mr. Howe pointed out that it was not necessary to operate on the busiest thoroughfares, as their experience showed that suburban roads were actually better locations. Mr. Howe answered many questions on this extremely interesting subject.

Mr. Smith spoke again on "Landscaping the Small Home." He suggested that the landscaping theme be started in the back yard and carried forward with a good knowledge of each plant in regard to its growing habits.

Roger W. Pease, horticulturist, West Virginia University, Morgantown, presented an interesting talk



on rooting cuttings using fog nozzles and hormones.

President Elsworth Black, Grove Nursery, Elm Grove, presided at the business meeting at which time there were discussions on unqualified persons doing tree work. It was decided that more damage than good seems to be the result of this practice. Suggestions included more education of garden clubs and individuals. It was suggested that garden clubs should make a project of this problem with the nurserymen supporting the work. A motion was carried that the West Virginia Nurserymen's Association would stand behind any project that garden clubs might develop along this line. Mrs. Percy Gillie, Bluefield, garden club representative, was to be contacted about such a project.

A decision was reached to let the English oaks planting be delayed because of the poor condition of the trees at that time. It was suggested that F. W. Craig, secretary-treasurer, contact Mrs. Clara Boyd, of the French gratitude train committee, about this matter.

The editing of the Nursery Views was discussed, and it was reported that E. R. Mattson, West Virginia University, would be most happy to edit the publication. However, Mr. Mattson would like to discuss the type of news-letter in which the nurserymen are most interested. Several nurserymen have planned to talk with Mr. Mattson on this matter.

New business included a discussion of selling wholesale to individuals by nurserymen.

Tours of Greenbrier Nurseries; Conner & Amos, Charleston, and LaBars' Rhododendron Nursery, White Sulphur Springs, were conducted during the afternoon, and the evening was spent picnicking at the beautiful Greenbrier forest.

On August 7, T. D. Gray, extension landscape architect, West Virginia University, conducted a nature hike from the top of famous Kate's mountain over the Young Nature trail to the foot of the mountain. Many interesting plants were observed along the way and refreshments were served after the hike.

JOHN MILLER has announced that Donald F. Bowman, landscape architect, is now associated with Green Ridge Nursery, Northville, Mich.

GRAVOIS GARDEN NURSERY is now at Route 1, Box 358, Fenton, Mo., having moved from Valley Park recently.



## Get LEAF-FREE PLANTS

direct from the field . . . ready for storage . . . with

## ENDOTHAL\* Nursery Defoliant

Endothal Nursery Defoliant, when sprayed before digging, acts as a chemical frost. It induces rapid leaf drop without injury in a variety of deciduous nursery stock. Re-growth and condition of stock are equal to hand-defoliated plants.

You simply mix Endothal with water and spray it through ordinary equipment. Rainfall five or six hours after application will not ordinarily affect plant response.

Try a gallon now! Endothal's quick action allows you to test it on your own stock. Convince yourself that in-the-field defoliation is now possible.

Write today for your supply . . . or for free bulletin and name of nearest distributor.

\*Endothal (disodium 3, 6-endoxo-hexa-hydrophthalate) is a trademark of Pennsylvania Salt Manufacturing Company. Its manufacture and use as a defoliant and herbicide are covered by one or more of the following U. S. Patents: 2,550,494; 2,576,080; 2,576,081; 2,576,083; other patents pending.

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CROTON FALLS, N. Y.

## ROSA MULTIFLORA JAPONICA

Hardy northern-grown seedlings. Upright, thorny type for stock-tight living fences, conservation and understock. We select our seeds for trueness to type. The plants are excellently grown.

Taking Orders Now for Fall, 1954, and Spring, 1955

**BROOKVILLE NURSERIES**  
GLEN HEAD, N. Y.

## SHEPARD NURSERIES

Growers and Distributors of  
**ORNAMENTAL NURSERY STOCK**

Truckloads only, no boxing.  
60 acres growing. Skaneateles, N. Y.

## CORKSCREW TREE

(Salix Matsudana Tortuosa)  
Contorted Hankow Willow or Corkscrew Tree. Very odd appearing horticultural curiosity. Branches grow upright with a corkscrew twist. Compact growing large shrub or small tree. Ultimate height 12 to 15 ft. Small trees approximately 3 to 4 ft., \$2.50 each.  
**BEARDSLEE NURSERY PERRY, O.**



## MEEHAN SPECIALTIES DRESHER—GROWN

	Per 100
Hydrangea P.G., 1-yr., layers...	\$ 8.50
Pin Oak, 2-yr., S. ....	15.50
Red Oak, 2-yr., S. ....	11.50
Scarlet Oak, 2-yr., S. ....	16.50
Berberis thunbergii, 1-yr., 9 to 12 ins. ....	5.00
White-flowering Dogwood, 1-yr., S., 10 to 15 ins. ....	7.50
Salix Babylonica, 12 to 18 ins. ....	6.00
2 to 3 ft. ....	9.50
3 to 4 ft. ....	12.50
Oriental Planes, 6 to 12 ins. ....	8.50
12 to 18 ins. ....	10.50
California Privet, 2-yr., 12 to 18 ins. ....	8.00
18 to 24 ins. ....	11.00
2 to 3 ft. ....	15.00

Packing charges extra.

GOODRICH BUDDING STRIPS  
RAFFIA

**THOMAS B. MEEHAN CO.,  
INC.**  
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Collector of past-due notes and accounts any place in the United States and foreign countries—Rates as below:

18% on the first \$500.00.  
15% on the next \$500.00.  
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On claims of \$30.00 or less, 50%.  
Minimum commissions \$15.00.

SUIT FEES: On claims of \$45.00 or more, a suit fee of not less than \$7.50.

**NO COLLECTION—NO CHARGE**

Freight bills not over two years old checked for 35 per cent of any amount found. Nothing found, no charge.

### FRENCH PUSSY WILLOW

(Salix Discolor Selection)

Beautiful February-flowering strain. Catkin sheath is a rich mahogany-red with attractive large silvery-pink catkins when mature.  
18 to 24 ins., \$30.00 per 100; \$250.00 per 1000.  
24 to 30 ins., \$4.00 per 10; \$35.00 per 100.  
15 to 18 ins., \$25.00 per 100; \$200.00 per 1000.

BEARDSLEE NURSERY PERRY, O.



## BOOK REVIEWS

### GARDENING IN THE SOUTH

Since its first publication, a few months more than a quarter century ago, "Gardening in the Lower South" has been a definitive guide in its area, which extends from the vicinity of Charleston, S. C., across the southern half of the states bordering on the Gulf of Mexico and over all of Florida. So its revision by the author, Dr. H. Harold Hume, is important to a section that has advanced rapidly in its horticultural aspects in recent decades. Just published by the Macmillan Co., at \$7.50, this volume of 377 pages of text is supplemented by 48 pages of photographic illustrations. The book covers all garden operations, as well as the various categories of plants especially adapted to the southern climate. Chapters on camellias and day lilies have been added.

No authority can be found more versed in the subject of this book than Dr. Hume, who began his career in southern horticulture in 1899 as botanist at the Florida Agricultural College, at Lake City. Retiring in 1949 as provost and dean emeritus of the college of agriculture at the University of Florida, Gainesville, he has been the recipient of medals, awards and degrees in acknowledgment of his extensive services. His recent books on azaleas, camellias and hollies are as well known as were his books on citrus fruits and the pecan when published two or three decades ago.

### TUBEROUS BEGONIAS

The constantly increasing popularity of tuberous-rooted begonias among gardeners of the east and middle west, where they require extra care, and on the Pacific coast, where they flourish extravagantly, is reason enough for the publication of "Complete Culture of Tuberous Begonias," by Dr. W. Othur Hillery, just published by the Chieftain Press, at \$4. The author, who has specialized in growing shade-loving flowering plants in his garden near Seattle, Wash., for a quarter century, retired from practice in 1949 and has

### FALL, 1954

Fruit trees, shrubs, shade trees, ornamental trees, evergreens, and taxus.

#### QUANTITIES IN:

Arborvitae, Aurea Nana  
Arborvitae, Dark Green American  
Berberis Mentorensis  
Birch, Weeping Cutleaf  
Cornus Florida  
Cotoneaster Divaricata  
Cotoneaster Opiculata  
Crab Apple, Flowering  
Euonymus Alatus Compactus  
Euonymus Patens  
Euonymus Vegetus  
Juniperus Canadensis  
Juniperus Columnaris  
Juniperus Glaucia  
Juniperus Keteleeri  
Juniperus Pfitzeriana  
Maple, Silver  
Privet, Amur River North  
Prunus Newport  
Willow, Thurlow

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BRIDGEPORT, IND.  
Established 1875

## LINING-OUT and FINISHED STOCK

Ask for List

## THE COTTAGE GARDENS

*Our 31st Year*

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**LANSING 15, MICH.**

## HARDY PLANTS Bulbs and Shrubs

"America's Finest"

*Write for Trade List*

*Springbrook Gardens*

MENTOR, O.

## HEMLOCK Rhododendron — Kalmia Azalea

**CURTIS NURSERIES**

CALICOON, N. Y.

been giving additional time to these begonias, fostering a local society and exhibitions.

While he explains that his text is intended for those who grow begonias in the Pacific northwest, it applies in other places as well, aside from variation in the calendar of operations. Opening chapters treat of the types of tuberous begonia flowers. Others cover care of tubers; requirements of the plants as to soil, moisture and shade; propagation by seeds, division and cuttings; culture in pots and in beds; fall care of tubers; insects and diseases; exhibiting plants, and the use of flowers in decorations.

Bound in an attractive washable green cover, the book of 138 pages contains 44 illustrations, of which 18 show types of blooms, seven are of flower arrangements and the others depict methods of propagation, handling of tubers, etc. Concise and informal in presentation the book yields information desired by the amateur grower, from an experienced source.

### FIRM FEATURED

Peterson & Dering, Inc., rose-growing firm at Scappoose, Ore., recently was the subject of an illustrated article in the St. Helen's Sentinel. The firm has about 35 acres of land planted to roses. Included in the more than 500,000 rosebushes which are shipped each year by the company to all parts of the United States and Canada are about 200 varieties, patented by leading nurseries. The Scappoose firm has been granted a license to grow and ship the flowers. At the present time, the establishment owns one patent which was purchased from another hybridizer. It is the Multnomah. However, hybridizers for the company have been working on special varieties which will go on the market soon. Both retail and wholesale sales are handled by Peterson & Dering, Inc.

JOHN J. PINNEY, of the Willis Nursery Co., Ottawa, Kan., sought to escape the August heat by driving northward with his wife and daughter, going into Canada, where he visited the Morden experimental station. Motoring eastward to New York state, he visited nurserymen en route home, at Chicago picking up his son Tom, who graduated from Beloit College in June and will enter Yale University on a graduate fellowship this month.

## FINISHED TAXUS and LINERS



These fine plants are surplus of stock grown for our own landscaping business. Prices below are to the nursery trade and subject to prior sale. 25 at 100 rate; 250 at 1000 rate; 5% discount for cash with order. Boxing at cost.

	Each per 100	Each per 1000		Each per 100	Each per 1000
<b>TAXUS HATFIELDI</b>			<b>TAXUS HICKSI</b>		
600 12 to 15 ins., B&B, XXX.	\$2.75	\$2.50	800 12 to 15 ins., B&B, XXX.	\$2.25	\$2.00
700 15 to 18 ins., B&B, XXX.	3.75	3.50	600 15 to 18 ins., B&B, XXX.	3.50	3.25
1500 3-yr., XX, bands.	.60	.55	300 18 to 24 ins., B&B, XXX.	4.25	4.00
			2000 3-yr., XX, bands.	.60	.55
			2000 2-yr., 2-in. pots.	.30	.27
<b>TAXUS CUSPIDATA CAPITATA</b>			<b>TAXUS BROWNI (GLOBE)</b>		
100 18 to 24 ins., B&B,XXX.	4.75	4.50	1000 3-yr., XX, bands.	.60	.55
150 2 to 2 1/2 ft., B&B,XXX.	6.50	6.25			
150 2 1/2 to 3 ft.,	7.75	7.25			
25 3 to 3 1/2 ft.,	9.25				
<b>TAXUS MEDIA NO. 18 (GLOBE)</b>			<b>TAXUS, PAYNE'S SPREADING</b>		
800 3-yr., X, 2 1/4-in. pots.	.35	.32	1000 3-yr., X, 2 1/4-in. pots.	.35	.32

## EAGLE CREEK NURSERY CO., INC.



Growers of Fine Evergreens

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### ORNAMENTALS

### TREES SHRUBS EVERGREENS

Wholesale growers of a  
general assortment for  
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### BRYANT'S NURSERIES

Princeton, Illinois

### PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25¢ per copy  
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### Specimen Landscape Materials

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### TAXUS



THE W. A. NATORP CO.  
4400 Reading Rd. Cincinnati 29, Ohio

Visit our nurseries when in Cincinnati



Tournament of Roses Queen of 1970

### Patented Bush Roses

Variety	Description	Price	
		Per 10	Each 100
Apricot Queen. Two-tone apricot...		\$0.90	\$0.70
Baby-Blaze. Avid red...		1.25	1.05
Babe Ruth. Two-tone pink...		1.10	.95
Betty Prior (Floribunda). Pink...		.90	.70
Bright Eyes (Floribunda).			
Lemon-yellow...		.90	.70
Butterscotch. Buff-yellow...		1.00	.80
Charlie McCarthy (Floribunda).			
White...		1.10	.95
California. Orange...		.90	.70
California Centennial. Crimson-red...		1.10	.95
Capistrano. Rose-pink...		1.10	.95
Charlotte Armstrong. Rose-pink...		1.25	1.05
Chrysler Imperial. Vivid crimson...		1.40	1.20
Connie Mack (Floribunda). Glowing crimson...		1.10	.95
Crimson Rosette (Floribunda). Red...		1.00	.80
Damon Runyon. Crimson...		1.40	1.20
Douglas MacArthur. Two-tone pink...		1.00	.80
Edith Willkie. Two-tone yellow...		1.00	.80
Fashion (Floribunda). Peach...		1.10	.95
Forty-Niner. Two-tone red and yellow...		1.40	1.20
Fred Howard. Two-tone yellow...		1.40	1.20
Gladius (Floribunda). Two-tone pink...		.90	.70
Goldilocks (Floribunda). Golden-yellow...		.90	.70
Grand Duchesse Charlotte. Carmine...		1.10	.95
Heart's Desire. Light red...		1.00	.80
Hedda Hopper. Flesh, pink, salmon...		1.10	.95
Henry Ford. La France pink...		1.40	1.20
Helen Traubel. Peach pink...		1.50	1.30
Hill Top. Pink and buff...		1.00	.80
Imp. Cecile Brunner (Floribunda).			
Rose-pink...		.90	.70
Jiminy Cricket (Floribunda). Orange...		1.40	1.20
Katherine T. Marshall. Coral-pink...		1.00	.80
Lilibet (Floribunda). Salmon-pink...		1.10	.95
Lowell Thomas. Deep yellow...		1.10	.95
Ma Perkins (Floribunda). Salmon-pink...		1.10	.95
Major Shelley. Glowing crimson...		.90	.70
Mirandy. Dark crimson...		1.25	1.05

Variety	Description	Price	
		Per 10	Each 100
Mme. Henri Guillot. Flame-rose...		\$1.10	\$0.95
Mme. Chiang Kai-Shek. Lemon-yellow...		1.00	.80
Ming-Toy (Floribunda). Rosy-red...		.90	.70
Mission Bells. Shrimp-pink...		1.10	.95
Mojave. Orange-red...		1.50	1.30
Nocturne. Dark red...		1.10	.95
Olive Percival. Oriental red-gold...		1.10	.95
Pearl Harbor. Two-tone pink...		.90	.70
Peace. Gold and pink...		1.40	1.20
Pink Rosette (Floribunda). Pink...		1.00	.80
Pinocchio (Floribunda). Salmon-pink...		.90	.70
Pinkie (Floribunda). Pink...		1.00	.80
Queen Elizabeth (Grandiflora). Pink...		1.65	1.40
Remembrance. Two-tone yellow, pink edge...		1.10	.95
Santa Anita. Rose-pink...		.90	.70
San Fernando. Scarlet-red...		1.00	.80
Show Girl. Pink...		1.10	.95
Sister Kenny (Floribunda). Brilliant scarlet...		1.10	.95
Sleigh Bells. White...		1.10	.95
Sutter's Gold. Yellow, shaded orange and red...		1.25	1.05
Tally Ho. Two-tone pink...		1.10	.95
Tiffany. Pink...		1.65	1.40
Tom Breneman. Rose-pink...		1.10	.95
Vogue (Floribunda). Deep rose...		1.10	.95
White Wings. Single white...		.90	.70
Will Rogers. Velvety crimson...		.90	.70
World's Fair (Floribunda). Crimson...		.90	.70

### Patented Climbing Roses

Variety	Description	Price	
		Per 10	Each 100
Cl. California. Orange...		\$1.40	\$1.20
Cl. Dream Girl. Salmon-pink...		1.25	1.05
Cl. Floradora. Cinnabar-red...		1.10	.95
Cl. Fred Howard. Two-tone yellow...		1.40	1.20
Cl. Heart's Desire. Red...		1.00	.80
Cl. High Noon. Yellow...		1.40	1.20
Cl. Indian Summer. Orange-yellow...		1.00	.80
Cl. Mrs. Paul J. Howard. Crimson...		1.00	.80
Cl. Peace. Gold and pink...		1.40	1.20
Cl. Santa Anita. Rose-pink...		1.00	.80
Cl. Texas Centennial. Red...		1.10	.95

# YOUR GREAT QUALITY

### Standard Bush Roses

Prices for all the following varieties:  
F.O.B. Southern California

Size	Price	
	Per 10	Each 100
No. 1		\$0.53
No. 1 1/2		.43
No. 2		.33
Angels Mateu—Buff-yellow		
Autumn—Copper and gold		
Condesa de Sastago—Orange and red		
Contrast—Two-tone pink		
Countess Vandal—Orange-copper		
Crimson Glory—Red		
Crown of Gold—Yellow and buff		
Crown of Jewels (Flor.)—Oriental red		
Dagmar Spaeth (Flor.)—White, pink		
Dainty Bess, Single Hy-T—Shell-pink		
Duquesa De Penaranda—Cinnamon-peach		
Eclipse—Yellow		
Elsie Poulsen (Floribunda)—Rose-pink		
Ena Harkness—Deep red		
Etoile De Hollande—Crimson red		
Floradora (Floribunda)—Cinnabar-red		
Frau Karl Druschki—White		
Fresham (Floribunda)—Red		
Hadley—Red		
Improved Lafayette (Floribunda)—Crimson		
Joanna Hill—Cream-yellow		
J. Otto Thilow—Rose-pink		
K. A. Victoria—White		
Lipstick (Shrub Rose)—Cerise		
Los Angeles—Flame-pink		
Margo Koster (Polyantha)—Salmon		
McGredy's Ivory—Creamy-white		
McGredy's Yellow—Canary-yellow		
McGredy's Scarlet—Scarlet		
Mme. Cochet-Cochet—Light pink		
Margaret McGredy—Orange and scarlet		
Mme. Jules Bouche—White and slight pink		

### Patented Tree Roses No.

Please order in units of 5 to a variety.  
Each \$2.45 F.O.B. Southern California

RED	
Charlotte Armstrong	Heart's Desire
Nocturne	G. D. Charlotte
Chrysler Imperial	San Fernando
Tom Breneman	Carrousel
PINK	
Show Girl	Lilibet
First Love	Mission Bells
Helen Traubel	Capistrano
YELLOW	
Sutter's Gold	Lowell Thomas
Buccaneer	Fred Howard
Peace	
MULTI-COLOR	
Mojave	Mark Sullivan
Forty-Niner	
WHITE	
Sleigh Bells	

**DOLLAR PRODUCER**

# California ROSES

## PACKAGED ROSES

F.O.B. Southern California

### No. 1 Grade

**\$62.50 per 100 plants**  
**\$585.00 per 1000 plants**

Shipped in colorful root-wrapped package as shown on the right. Will ship in carton if requested, similar to box shown on the left.

### No. 2 Grade

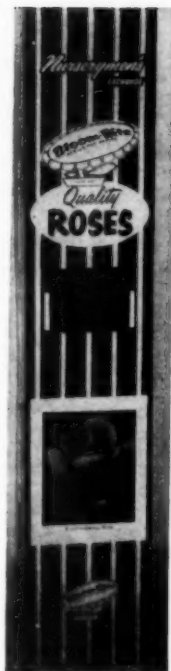
**\$43.50 per 100 plants**  
**\$395.00 per 1000 plants**

Shipped in cartons as shown on the left. This newly designed carton is a proven "impulse" sales maker.

### No. 2 Grade. Packed 3 Plants to a Package

**\$67.50 per 100 packages**  
**\$825.00 per 1000 packages**

This package is designed for special promotion sales. Package appears similar to one on the right. Each rose is individually labeled as to variety. Three pictures in four-color lithograph are banded around the base of the package.



### Miniature Roses

All plants are from 2 1/4-in. pots unless otherwise indicated.

F.O.B. Fresno, Calif.

	Price Per 10	Each Per 100
<b>Frosty</b> —Pat. R.R. Whitest White.....	\$0.65	\$0.60
<b>Patty Lou</b> —Pat. App. for. Rose bi-color.....	.55	.50
<b>Lemon Drop</b> —Pat. R.R. New. Tiny yellow buds.....	.55	.50
<b>Centennial Miss</b> —Pat. App. for. Rose-red.....	.40	.35
<b>Cutie</b> —Pat. App. for. Pink.....	.40	.35
<b>Pink Joy</b> —Pat. App. for. Pink.....	.40	.35
<b>Snowflake</b> —New white.....	.40	.35

	Price Per 10	Each Per 100
<b>Thumbelina</b> —New red. Improved Tom Thumb.....	\$0.40	\$0.35
<b>Rosa Rouletti</b> —Pink.....	.40	.35
<b>Oakington Ruby</b> —Red.....	.35	.30
<b>Cinderella</b> —Pat. No. 1051. White.....	.65	.60
<b>Pixie</b> —Pat. No. 408. White.....	.55	.50
<b>Red Imp</b> —Pat. No. 1032. Red.....	.55	.50
<b>Tinker Bell</b> —Pat. New pink.....	.65	.60
<b>Baby Gold Star</b> —Pat. No. 407 yellow.....	.65	.60

## Nurserymen's Exchange

938 Howard Street, San Francisco 3, Calif.

Miss Rowena Thom—Salmon end pink  
Mrs. E. P. Thom—Deep yellow  
Mrs. Lovell Swisher—Two-tone pink  
Mrs. Pierre S. Du Pont—Golden-yellow  
Mrs. R. M. Finch—White and pink  
Phyllis Gold—Yellow  
Pink Dawn—Pearly-pink  
Pink Radiance—Two-tone pink  
President Hoover—Red and gold  
Red Radiance—Cerule-red  
Red Ripples, Shrub rose—Red  
Rosen Elfe (Floribunda)—Rose-pink  
Sister Therese—Chrome-yellow  
Snow Bird—White  
Talisman—Rose and gold  
The Doctor—Silvery-pink  
Texas Centennial—Red  
Tango—Red and yellow  
White Finch (Floribunda)—White

### Standard Climbing Roses

Alle of Portugal—Light pink  
Blaze—Scarlet  
Cecile Brunner—Pink  
Condesa De Sastago—Copper and gold  
Dainty Bess—Shell-pink  
Ednah Thomas—Pink  
Etoile De Hollande—Bright crimson  
Gold Rush—Yellow  
Hadley—Deep crimson  
K. A. Victoria—White  
Lady Sylvia—Light pink  
Lolita Armour—Coral-red  
Los Angeles—Flame-pink  
Mrs. E. P. Thom—Deep yellow  
Mme. G. Staechelin—Pink and carmine  
New Dawn—Light pink  
Pink Dawn—Rose-pink  
Paul's Scarlet—Scarlet  
President Hoover—Red and gold  
Pink Radiance—Carmine-pink  
Red Radiance—Cerule-red  
Rose Marie—Rose-pink  
Silver Moon—White  
Talisman—Rose-gold  
Cl. Tom Breneman—Rose-pink  
Vile De Paris—Yellow

### Standard Tree Roses No. 1

Each \$1.95 F.O.B. Southern California

#### RED

Red Hoover Night  
Red Talisman Garnette (Poly)  
Red Radiance Floradora (Poly)  
Etoile De Hollande Crimson Glory

#### PINK

Pink Radiance The Doctor  
Otto Thilow Countess Vandal  
Picture

#### YELLOW

E. P. Thom Eclipse  
P. S. Du Pont McGredy's Yellow

#### MULTI-COLOR

President Hoover Condesa De Sastago  
Talisman Autumn

#### WHITE

K. A. Victoria Snowbird  
McGredy's Ivory Frau Karl Druschki



# Prices and Profits

*Comments on Business Management in the Nursery*

*By John J. Pinney*

## PRICING FALLACIES

The nursery business has fallen into some strange practices. One of them is the way its products are priced. In order to understand this statement let us consider the practices commonly employed by manufacturers.

Nearly all manufactured products are given retail prices by the manufacturer. In this way he establishes a retail price that is high enough to cover all the costs until the product is in the hands of the consumer. Included are the initial cost of manufacturing the product, the cost of advertising to create customer demand, the cost of selling to the jobber and the dealer, the expenses of the retailer in placing it before and selling to the consumer as well as profits for the manufacturer, jobber and dealer.

The retail or consumer price usually is advertised to the consumer to establish its value in his mind. The importance of this has been recognized in the fair trade act, under which the dealer is bound to sell at the advertised price.

This practice is for the retailer's benefit as much as for the manufacturer and jobber because it insures him not only a profitable price for the product but protects him against unfair competition.

The cost to the retailer is based only indirectly on the cost of production. Rather, it is priced to him on the basis of the retail price. His cost is arrived at by a discount or series of discounts from the selling price.

By establishing the retail price the manufacturer can set it high enough to enable him and his distributors to conduct an adequate sales campaign that will create a market and insure profits for all.

How is it done in the nursery business? In this case the grower or wholesaler corresponds to the manufacturer. The grower guesses at his costs—that is exactly what he does—guesses. He does not know what it costs him to produce a given item. Even though the wholesaler has a rough idea of the cost of production it may not have much influence on his selling price because he takes other things into consideration in establishing his prices.

Among these considerations are

his own supply, his knowledge (or guess) of the supply in the hands of his competitors, his idea of the demand, what he thinks his competitors will charge and what he believes his customers are willing to pay. It is a confused pattern that results in a confused price structure in the nursery business. It accounts for the wide variation in prices on the same items.

The retailer, naturally, buys as low as he can and still receive good stock. Then when he sets his prices he does pretty much the same thing as the wholesaler. He wants to be competitive so he keeps the price as low as he dares. Too often the markup is too small.

The wholesalers, with few excep-

tions, do nothing about establishing retail prices in advertising to the consumer. Consequently the retailer has to do the advertising, but his selling price is not high enough to allow an adequate ad budget.

That is why the nursery ads in magazines and newspapers are so small. The plain fact is that nurserymen cannot afford to spend much for advertising. Furthermore, it is not likely that they ever will until they make a higher margin of profit.

The mental processes involved in pricing nursery stock are partially responsible for this situation. Take an example: Suppose a shrub costs 50 cents and retails for \$1. Too often the retailer thinks he is making 100 per cent. He could not be more mistaken.

Like other merchants, he should figure markup on the selling price, not on cost. Then he would realize that his markup is only 50 per cent.

There is no such thing as 100 per cent markup. Figure it out for your-

<b>TAXUS CUSPIDATA</b>	Each	Per 1000
12 to 15 ins. ....	<b>\$2.50</b>	.....
15 to 18 ins. ....	<b>3.25</b>	.....
18 to 24 ins. ....	<b>4.75</b>	.....
Small quantities or truckloads.		
<b>TRIMMED SPECIMEN TAXUS ANDERSONI</b>		
Every one a perfect plant.		
12 to 15 ins. ....	<b>3.00</b>	.....
15 to 18 ins. ....	<b>3.85</b>	.....
<b>Here are just a few of our extra-heavy liners:</b>		
<b>EUONYMUS ALATUS COMPACTUS</b>		
Field-grown from cuttings. Beautiful plants.		
8 to 12 ins., br. ....	<b>.40</b>	.....
<b>EUONYMUS COLORATUS</b>		
12 to 15 ins. ....	<b>.50</b>	<b>\$450.00</b>
<b>EUONYMUS PATENS</b>		
Extra heavy, suitable for potting.		
8 to 12 ins. ....	<b>.45</b>	<b>400.00</b>
<b>EUONYMUS VEGETUS</b>		
Heavy. 8 to 12 ins. ....	<b>.50</b>	<b>450.00</b>
<b>RIBES ALPINUM</b>		
Heavy, 8 to 10 ins., br. ....	<b>.30</b>	<b>250.00</b>
<b>MULTIFLORA UNDERSTOCKS</b>		
American-grown, heavy roots from diseased cuttings. For fall or spring planting		<b>35.00</b>

Write us for complete list on lining-out stock.

**ILGENFRITZ NURSERIES, INC.**  
MONROE, MICH.

**THE LAKETON NURSERIES, Laketon, Ind.**

*Quality Nursery Stock since 1880*

## VICARY PRIVET

Lovely golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun.

Greenhouse cuttings. .... Per 100 Per 1000  
BEARDSLEE NURSERY \$10.00 \$80.00 PERRY, O.

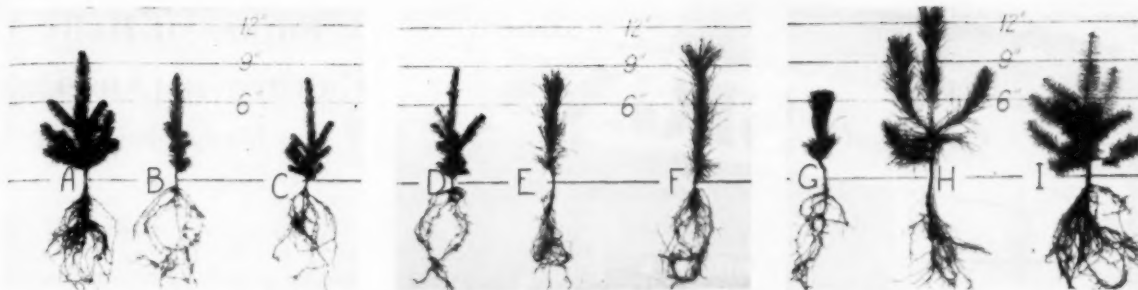


*Wholesale growers of the best*

**Ornamental Evergreens**  
**Deciduous Trees**  
**Shrubs and Roses**

Write for our current trade list

**THE KALLAY BROTHERS CO.**  
Painesville, Ohio



## Fall Liners and Christmas Tree Stock Fall, 1954

	Per 100	Per 1000	Per 10,000		Per 100	Per 1000	Per 10,000
Colorado Blue Spruce, 3-2, 9 to 12 ins.	\$35.00	.....	.....	* F Riga Scotch Pine, 2-0, 6 to 10 ins.	\$ 3.00	\$ 14.00	\$12.00
A Colorado Blue Spruce, 3-2, 6 to 9 ins.	18.00	\$150.00	.....	* Riga Scotch Pine, 2-0, 3 to 6 ins.	8.00	36.00	35.00
Colorado Blue Spruce, 3-2, 4 to 6 ins.	12.00	80.00	.....	G Austrian Pine, 2-0, 3 to 6 ins.	5.00	22.00	21.00
Colorado Blue Spruce, 3-0, 3 to 5 ins.	6.00	30.00	.....	H Austrian Pine, 2-2, 8 to 12 ins.	6.00	25.00	24.00
B Colorado Blue Spruce, 3-0, 5 to 10 ins.	10.00	65.00	.....	Mugho Pine,	12.00	90.00	.....
White Spruce, 3-0, 3 to 5 ins.	4.00	20.00	.....	3-0, top sheared to about 3 ins.	5.00	30.00	25.00
C White Spruce, 3-0, 5 to 10 ins.	8.00	40.00	.....	Douglas Fir, Rocky Mt. type,	.....	.....	.....
Norway Spruce, 3-0, 3 to 5 ins.	4.00	20.00	.....	2-0, 3 to 8 ins.	6.00	28.00	25.00
D Norway Spruce, 3-0, 5 to 10 ins.	8.00	38.00	.....	Douglas Fir,	.....	.....	.....
Riga Scotch Pine, 2-1, 3 to 8 ins.	10.00	45.00	.....	taxifolia glauca, 2-2, 6 to 9 ins.	10.00	75.00	.....
* E Riga Scotch Pine, 2-0, 3 1/2 to 8 ins.	7.50	26.00	\$24.00	I taxifolia glauca, 2-2, 9 to 12 ins.	15.00	125.00	.....

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 5 per cent discount for cash with order on fall orders.

On spring orders, 5 per cent discount if paid in full December 1, 1954.

25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Minimum order \$10.00.

(Packing charge included in price of trees.)

\* Prices available on request for 50,000 or more.

## MATTHEWS NURSERY

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self. The formula is simple. Divide the difference between cost and selling price to arrive at the per cent of markup.

The fact is that the nursery business cannot operate with an adequate profit on a 50 per cent markup. The markup must cover not only the wholesale price, but transportation, packing, shrinkage, selling cost and overhead.

Consult those nurserymen who have been most successful and they will tell you that they must get from two and one-half to four times the cost to make an adequate profit. Translated into markup this is from 60 to 75 per cent.

The nursery business would do well to follow the example of the manufacturer. This will not be easy because of the many difficulties in the way, but someday it will be done.

The plant patent owners are pointing the way. They establish retail prices on their plants which are much higher than those of nonpatented plants in the same class. The higher profits are utilized to advertise and merchandise the patented plants, thus creating a market at prices with which the consumer is already familiar.

The same practice could be followed when new plants are intro-

duced even though they may not be patented. When a profitable retail price is once established, it is much easier to maintain it thereafter.

Why will a homeowner willingly pay \$3 for a rosebush today when a few years ago he never paid more than \$1.50? The answer is that he wants the rosebush and he wants it because a desire for it has been created by effective advertising paid for out of higher profits.

### ROSE BROCHURE PUBLISHED

A handsome brochure featuring Armstrong rose creations has been issued by the Armstrong Nurseries, Ontario, Calif., as a sales aid for retail dealers. In its pages are pictured in striking color the many outstanding varieties developed by the firm's research department during the past 20 years, including varieties which have been named All-America Selections and new introductions. An index classifies the featured roses by color.

The brochure has been published to enable dealers selling dormant bushes to have a means of showing retail customers the beauty of bloom that they may expect. One copy is being sent free of charge to each Armstrong dealer, with additional copies available at a nominal charge.

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2 to 3 ft., B&B.	2.85
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3 to 4 ft., B&B.	2.50
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7 to 8 ft., B&B.	6.50
8 to 9 ft., B&B.	7.50

Multiple stems add 10 per cent.

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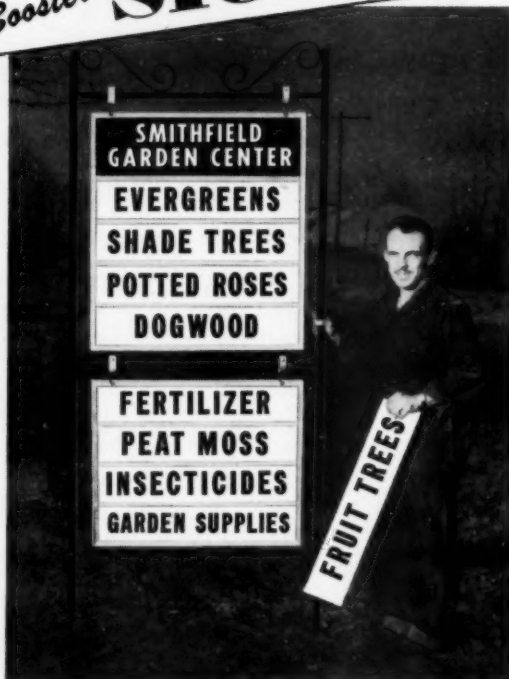
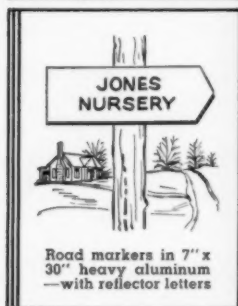
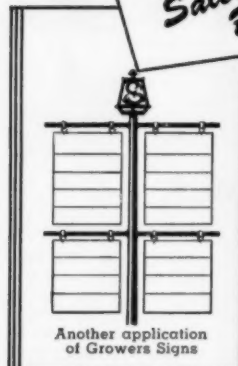
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## Future of Holly Culture in America

Part II • By Shiu-ying Hu

Arnold Arboretum, Jamaica Plain, Mass.

[In the first installment of this series, Dr. Hu discussed the limited number of holly species to be found in this country and went on to describe the fruiting habits of various types of holly. In this second and concluding installment she suggests definite plans for increasing the number of *Ilex* species available through propagation, introductions and hybridization.]

*Ilex* is a widely spreading genus. It occurs in the temperate and tropical regions of both hemispheres except in the western and northwestern United States. The 36 species entered in Rehder's manual represented nearly all the species ever introduced into cultivation. After locating the original home of each species, one cannot but feel that they are from geographically limited areas. Ten out of these 36 originated in the United States, but only *Ilex opaca* and *Ilex verticillata* are common in American gardens; two of the 36 originated in the Canary islands, and neither of them is common in American gardens; three originated in eastern Himalayan regions, and none of them is found in American gardens; 12 were from China, two of which, *Ilex cornuta* and *I. pernyi*, are in American gardens; nine were from Japan, and only one, *Ilex crenata*, is common in American gardens. Central and South America and the West Indies are known to be rich in hollies.

### Vision and Practical Suggestions

I have a vision. I see that 10 to 25 years from now, in many American gardens, as in the Grand hall of the United Nations' building, where people of all colors, customs and languages are gathered, each showing his own personality as well as his nationality, there will be hollies from all nations—substantial, like *Ilex latifolia*; graceful, like *Ilex geniculata*; showy, like *Ilex micrococca*; rich, like *Ilex chinensis*; mighty, like *Ilex cornuta*; weak, like *Ilex rugosa*; compact, like *Ilex subcordata*, and prostrate, like *Ilex intricata*. Each has its own place. I also see that by that time, during the cold winter months when flowers are rare, large quantities of beautiful hollies of the *cymosa*, *chinensis* and *latifolia*, as



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well as cornuta, aquifolium and opaca types, will be raised in gardens down south and shipped to all florists in abundance. How can this vision be realized? By propagation of the lesser-known species, planned introductions and hybridization.

### Propagation

There are several good species, the merits of which are not known by American growers. The best of these are *Ilex latifolia*, *Ilex chinensis*, *Ilex yunnanensis* and *Ilex micrococca*. For example, up to the past year or two, no American grower knew the color of the berries of *Ilex yunnanensis*.

The director of the Arnold Arboretum, Dr. Karl Sax, is a cytogeneticist with vision. Realizing that the evergreen, shrubby species of hollies like *Ilex glabra* and *Ilex crenata* all have black berries and the red-berried species like *Ilex verticillata* and *Ilex laevigata* have no leaves when their fruits are at their best, for several years he tried to produce a red-berried *Ilex glabra* or *Ilex crenata* by hybridization. For this purpose, I have pollinated hundreds of holly flowers for him and had no success.

*Ilex yunnanensis* has been planted in the Arnold Arboretum for over 20 years. Having no male plant

near it, it bore no fruits. Three years ago, Dr. Donald Wyman, the horticulturist of the Arnold Arboretum, planted a male plant near the old plant. Last year, that old *Ilex yunnanensis* bore fruits in great abundance and, to the surprise of many, the beauty that Dr. Sax had hoped for was realized. Such a plant, and those the Oriental peoples have known for their merits, should be propagated in large quantities.

### Planned Introduction

Out of the 36 cultivated species of hollies entered by Rehder, 21 came from the Orient—that is, 12 from China and nine from Japan. When these hollies were introduced, the flora of China and Japan were not well known. Men like Sargent and Veitch who knew that the Chinese and the Japanese were good gardeners sent collectors there hoping to gather some valuable plants. These hollies were introduced by accident rather than by plan. In most cases only one or two, or a few plants, were introduced. In this country they were then propagated vegetatively. In case of the plant's being a male, that would be the end of it. For this reason, the merit of many good Oriental species of hollies, like *I. latifolia*, *I. chinensis* and *I. yunnanensis*,

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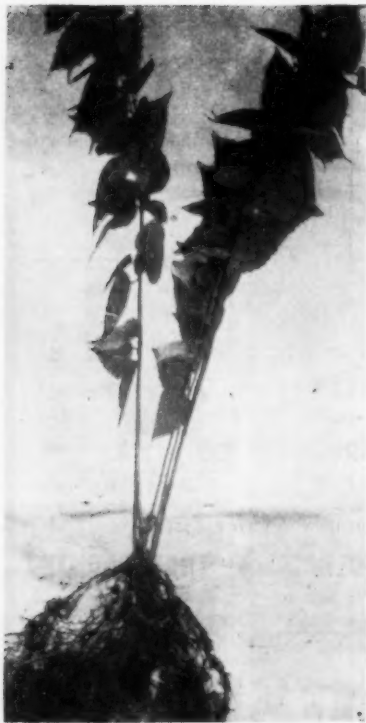
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is not appreciated by American growers. What is wanted is now better understood and there is also a better knowledge of the flora of the homeland of hollies. With the rapid means of transportation by air mail, cuttings of good species and large quantities of seeds can be introduced from Japan and Taiwan in a week's time. To furnish a guide for such introductions, I have just finished a paper on the *ilex* of Formosa and Liukiu islands.

As mentioned before, the nations near the United States that are rich in *ilex* should also be considered in this planned introduction. For example, *Ilex toluana* of the cold pine zone of the Sierra Characo, Sonora, Mexico, and *Ilex karsteni*, which grows at 3,500 feet above the sea at Boyaca, Colombia, both have large clusters of fruits and should be introduced for southern gardens. *Ilex domestica* of Brazil and *Ilex flansii* of Jamaica also have large clusters of fruits. *Ilex subcordata nummularioides* of Brazil has the most compact habit and the glossiest foliage that any holly can produce. All these species should be given a trial in the soil of American gardens.

### Value of Cooperation

Regarding the introduction of hollies, horticulturists can learn a lesson from Dr. E. D. Merrill and his introduction of *metasequoia* into America, Europe and Australia. He sent \$250 to Dr. W. C. Cheng, a Chinese forester at Nanking, China, and asked him to supervise an expedition for the collection of the flora of the *metasequoia* region and for seeds. Subsequently bushels of *metasequoia* seeds for redistribution to botanical gardens and individuals interested in the preservation of this living fossil the world over were sent back to him. Now, all the *metasequoia* in the world (with the exception of those in China and three plants in California) have come from his seeds. This fact illustrates the efficiency of cooperating with native botanists or leaders in the introduction of plants.

For cooperation in the introduction of hollies from Japan and Formosa (Formosa has many hollies common to those of the Chinese mainland), I should like to suggest Dr. Hiroshi Hara, of the Botanical Institute, University of Tokyo, Tokyo, Japan, and Prof. W. F. Chu, department of forestry, National University of Taiwan, Taiwan (Formosa), China.

Doubtless, hybridization will produce still other forms for America.

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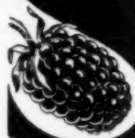
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## OBITUARY

### Sam P. Ford

Sam P. Ford, of North Tyler Nursery Co., Tyler, Tex., died July 28 at his home, it has been learned. He had been in the nursery business 56 years. He was credited with originating the modern method of budding roses.

He is survived by his widow; a daughter, Mrs. Charles W. Morrow, and three sons, Tim, Mark and Sam P. Ford, Jr., all of Tyler.

### Joseph P. Crynes

Joseph P. Crynes, who made his home at Kew Gardens, L. I., N. Y., died recently at the age of 72. He had been associated with Vaughan's Seed Co. for about 20 years, and before that, with the former Stump & Walter Co., New York.

## NEW PECAN SELECTIONS

Hayes and Patrick are two newly named pecan varieties for Oklahoma, selected at the conclusion of an extensive survey among growers of native pecans in the state conducted by the division of agriculture,

Oklahoma A. and M. College, Stillwater, Okla. The survey was conducted as a contest among pecan growers. Individual entries were examined and placed according to desirability for shelling, with such factors as kernel percentage, size and shape of nut, completeness of separation of kernels from shell and color of kernel taken into consideration. Trees which produced the top 10 nut entries were visited, and information was obtained on production, disease resistance and date of maturity.

The parent tree of Hayes is located in Lincoln county, Oklahoma. It is a large tree which bears regularly and averaged 64 pounds of nuts per year from 1947 to 1953. The Hayes nut is medium in size, oblong to roundish in shape and has a thin shell. The kernel is plump, wide, rather dark, and has good flavor and quality.

The parent tree of Patrick is located in Rogers county, Oklahoma. It bears every other year. From 1948 to 1953 production averaged 72 pounds per year. The kernel is light in color, elongated, plump and smooth. The shell is thin and easy to crack. The nut is a dull brownish color with distinct markings at the apex.

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White Spruce, (2-0), 3 to 5 ins.	4.00	20.00
6 to 8 ins.	5.00	30.00
Norway Spruce, (2-0), 2 to 4 ins.	3.00	15.00
(2-2), 3 to 5 ins.	5.50	35.00
(2-2), 6 to 8 ins.	7.00	50.00
(2-2), 8 to 10 ins.	8.50	65.00
Austrian Pine, (2-0), 2 to 4 ins.	3.00	15.00
(3-0), 8 to 10 ins.	5.50	35.00
(2-2), 6 to 8 ins.	6.50	45.00
(2-2), 8 to 10 ins.	8.50	65.00
Scotch Pine, (2-0), 3 to 5 ins.	3.00	15.00
(2-0), 6 to 8 ins.	4.50	25.00
(2-2), 4 to 8 ins.	5.50	35.00
(2-2), 8 to 10 ins.	7.00	50.00
Red Pine, (3-0), 8 to 10 ins.	5.50	35.00
Mugho Pine (Dwarf Tyrolean), (3-0), 2 to 4 ins.	4.00	20.00
White Birch Seedlings (Alba Pendula), (2-0), 12 to 15 ins.	10.00	
Jack Pine, (3-0), 12 to 15 ins.	6.00	35.00
Scotch Pine and Norway Spruce, bedding stock, (2-0), up to 2 ins.	7.50	

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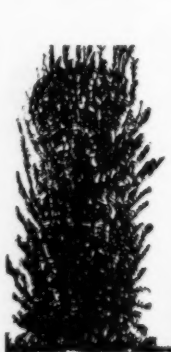


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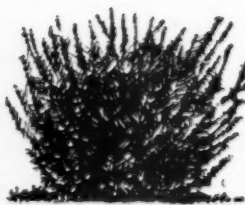
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## Plant Patents



The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 1285. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by its type of plant growth and type of flowers comparable to those of Pinocchio (plant patent No. 484), by its relatively great floriferousness, by the begonia-rose general color tonality of its half-open flowers, by the eosin-pink general color tonality suffused over the lower half of the petals and La France-pink color of the fully open flowers and by its suitability for both outdoor planting and greenhouse culture.

No. 1286. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by its compact growing habit and other general over-all plant characteristics similar to those of the variety Pinocchio (plant patent No. 484), by its hardness which is comparable to that of the variety Fashion (plant patent No. 789), by its oval-pointed leaflets comparable to those of the aforesaid Fashion variety, by the cupped shape of its flowers comparable to those of the aforesaid variety Pinocchio, by the double petalage of its flowers, by the distinctive coloring of its flowers especially in the half-open stage and by the distinctive coloring of its young foliage comparable to that of Fashion.

No. 1287. Nectarine tree. John M. Garabedian, Fresno, Calif. A new and distinct variety of nectarine tree, bearing clingstone fruit which, as compared to the Tioga variety of nectarine, is characterized by fruit of similar color but larger size, ripening approximately four weeks later than said Tioga; the flesh of the fruit of the instant variety being mild in flavor, medium texture, crisp and meaty, as compared to the tart, pithy flesh of the Tioga.

No. 1288. Pothos plant. Daniel J. Greer, Hialeah, Fla. A new and distinct variety of pothos plant, characterized particularly by its rapid propagation and quick growth and by its leaves, each having sharply contracting white, yellow and green color patterns, instead of a combination of just two of these colors.

No. 1289. Rose plant. Orlando Ober-tello, Oakland, Calif. A new and distinct variety of hybrid tea rose plant, characterized particularly by its combination of healthy, bushy plant growth; strong, heavy canes; abundance of large foliage, which is soft and smooth but leathery, and by its large fragrant flowers of compact form, medium petalage and bright red color.

No. 1290. Ivy plant. Walter S. Hahn, Pittsburgh, Pa. A new and distinct variety of ivy (Hedera helix) plant of the self-branching type, characterized particularly by its plentiful dark green lanceolate leaves, having deeply dissected lobes ar-



# EVERGREENS

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TAXUS (heavy sheared)		Each
<i>Taxus Cuspidata</i> , 15 to 18 ins.		\$3.00
18 to 24 ins.		4.00
<i>Taxus Browni</i> , 15 to 18 ins.		3.25
18 to 24 ins.		4.00
<i>Taxus Hicksi</i> , 15 to 18 ins.		3.00
18 to 24 ins.		4.00
24 to 30 ins.		5.00
30 to 36 ins.		6.00
<i>Taxus Hatfieldi</i> , 15 to 18 ins.		3.00
18 to 24 ins.		4.00
24 to 30 ins.		5.00
<i>Taxus Andersoni</i> , 15 to 18 ins.		3.00
18 to 24 ins.		4.00
24 to 30 ins.		5.00
<i>Taxus Intermedia</i> , 15 to 18 ins.		3.00
18 to 24 ins.		4.00
<i>Taxus Adams Columnaris</i> , 18 to 24 ins.		3.75
24 to 30 ins.		4.50
30 to 36 ins.		5.50
<i>Magnolia Soulangeana</i> , 2 to 3 ft.		3.00
3 to 4 ft.		4.00
4 to 5 ft.		5.00
<i>Ilex Cornuta Burfordi</i> , 15 to 18 ins.		2.00
18 to 24 ins.		2.75

JUNIPERS (heavy sheared)		Each
<i>Pfitzer Juniper</i> , 15 to 18 ins.		\$2.25
18 to 24 ins.		2.75
24 to 30 ins.		3.50
30 to 36 ins.		4.25
<i>Compact Pfitzer Juniper</i> , 15 to 18 ins.		2.50
18 to 24 ins.		3.00
<i>Blue Heitz Juniper</i> , 18 to 24 ins.		2.75
24 to 30 ins.		3.50
30 to 36 ins.		4.25
<i>Irish Juniper</i> , 2 1/2 to 3 ft.		2.00
3 to 4 ft.		2.50
4 to 5 ft.		3.00
<i>Spiny Greek Junipers</i> , 2 1/2 to 3 ft.		2.00
3 to 4 ft.		2.50
4 to 5 ft.		3.00

### GRAFTS

<i>Keteleeri Juniper</i> , 3 ft.	3.00
3 to 4 ft.	4.00
4 to 5 ft.	5.00
<i>Dundee Juniper</i> , 3 ft.	3.00
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ranged and superimposed in such a way as to give a winged effect.

No. 1291. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the relatively large size and increased petalage of its flowers; by the strong, long and upright flowering stems thereof; by the distinctive various shades of orange coloring of its flowers; by the strong tea fragrance of its flowers, and by its abundance of glossy foliage.

No. 1292. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario. A new and distinct variety of rose plant of the hybrid polyantha class, characterized particularly as to novelty by its cluster blooming habit; by the improved petal substance and attendant lasting quality of its blooms; by the relatively good size of its flowers, ranging between that of its parents, and by the distinctive medium red general color tonality of its flowers, approaching the coloring of its parent World's Fair (plant patent No. 362) but lighter and brighter than the coloring of the latter.

No. 1293. Rose plant. John de Vink, Boskoop, Netherlands, assignor to Conard-Pyle Co., West Grove, Pa. A new and distinct variety of rose plant of the miniature class, characterized particularly as to novelty by its true miniature habit of growth and by the bright pink general color tonality of its flowers.

No. 1294. Hybrid tea rose plant. Alfred J. Fraser, Queensferry, England, assignor to Bees, Ltd., Liverpool. A new and distinct variety of hardy hybrid tea rose plant, characterized particularly

by its high-centered bud, deep crimson blooms, with rich velvetlike pile, borne singly and being of large size, five and one-half to six and one-half inches in diameter when fully open, displaying broad petals and numerous stamens of golden-yellow coloration; leaves each composed of from five to seven olive-green leaflets, oval in shape and with toothed edges, and green twigs bearing straight red triangular thorns and tapering to a point.

### Stan Says —

Two unusual evergreens are *Pinus cembra* (Swiss stone pine) and *Picea polita* (tiger's-tail spruce). These make attractive specimens, and anyone desirous of these should be willing to pay a good price. I have seen a fine *Pinus cembra* (four miles west of Erie, Pa.) in sandy, gravelly soil. *Picea polita* has the stiffest leaf structure of any of the conifers. It does not grow fast and will thrive in a heavy soil. Both conifers have erect vertical stems. You cannot see through the growth of the *Pinus cembra*, but you can see through the *Picea polita*.

If you want a smartly tailored evergreen that does not have to be pruned to give it that B. Altman & Co. Fifth avenue look, by all means select *Pinus cembra*. If your customer likes tweeds, he will go for tiger's-tail spruce.

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(*Rosa multiflora japonica*)

Thorny, upright type, propagated from mature midwest fences.

Our stands have never been better and, with our irrigation and fertilization program, we hope and believe we will produce exceptionally fine plants this year. Each year we grow several million seedlings and every year for the past 10 years we have been short in the spring. We urge you to cover your requirements promptly.

Per 1000

2/16 to 3/16-in. cal., 10 to 15 ins. \$15.00  
3/16 to 1/4-in. cal., 15 to 18 ins. 22.00

Plants will be top and root trimmed prior to shipping. All prices F.O.B. Elsberry. No packing charge.

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## Hardy Northern-Grown Stock at WHOLESALE

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#### NEW YORK MEETING

[Continued from page 16]

is water loss. Cuttings under mist lose little if any water, but cuttings in a sweatbox often lose so much water that they wilt. One reason for the higher water loss in the sweatbox is that the temperature is 10 to 15 degrees warmer than in the mist technique. The cuttings under mist are cooled by the fine spray of water.

"Another consequence of the higher temperature in the sweatbox," Mr. Hess stated, "is that stored food is probably used at an increased rate and cuttings do not have enough reserves left for proper rooting. Finally, the use of mist permits rooting in full sunlight, while the sweatbox must be shaded to keep temperatures within reasonable limits. Since relatively high light intensity coupled with moderate temperature is essential for the manufacture of food, the cuttings under mist are able to build up food reserves at a greater rate than those in a sweatbox."

Dr. William E. Snyder, of the university's floriculture and ornamental horticulture department, guided nurserymen on a tour of outdoor propagating beds in which experiments on mist propagation are being conducted. Dr. Snyder also showed experiments in progress on teuchrium and other plants which had been taken from the cutting bench in winter as rooted cuttings and stored in polyethylene bags in cold storage for spring planting. No injury occurred from holding the cuttings in the polyethylene bags for this length of time.

During the afternoon, the nurserymen were led on a tour of a modern apple storage unit which featured the most efficient possible insulation and temperature and humidity control for successful storage of the fruit. Apples removed from this storage unit after 10 months have retained their freshly ripened characteristics for a week or more before softening.

The nurserymen were then shown

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Spring, 1955

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Fruit Trees and Berries  
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Complete Selection  
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NURSERY COMPANY  
SINCE 1872  
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Evergreen Liners  
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nursery stock stored in Leverpak drums and in polyethylene in their second year of growth after planting on June 15, 1953. The stock was defoliated in October, 1952, and stored at 31 degrees Fahrenheit during the winter. Similar results were obtained by Dr. Pridham from 1953 digging and closed atmosphere storage of stock till July 15, 1954.

### Evaluating Herbicides

Methods of screening herbicides and other chemicals to determine their effect on weed seeds, soils, dormant nursery stock and foliated stock were shown by Dr. A. M. S. Pridham and Robert Hsu. Dinitro formulations were shown to injure young and mature foliage. Crag Herbicide I did not cause injury to foliage and gave relatively good weed control. Chloro IPC 1:50 at 200 gallons to the acre of nursery row or one gallon of spray mix to 100 feet of row did not injure mature foliage of nursery stock, including evergreens, and gave efficient weed control for periods of five months and more when treated soil was left undisturbed. Dinitro formulations were equally persistent, of more rapid action than Chloro IPC, but injured juniper foliage in some cases. CMU, applied at three pounds to the acre during the dormant season or later, gave excellent weed control over a period of three months on a loamy soil. Previous tests have indicated some injury to nursery stock.

Tests of various selections of elm were shown by Dr. Francis Holmes. The use of antibiotics did not prove particularly successful in protecting American elm from Dutch elm disease in these tests.

"Deer Fly," advertised the past year for deterring deer from browsing on nursery stock, has not proved to be of outstanding value in tests by Harold Kline, of the department of conservation.

The final part of the day's tour was a visit to the Cornell rose gardens, a unit of the American Rose Society's test gardens.

### Exhibits

Exhibits of interest to New York nurserymen were staged at Statler Hall by Ernest F. Schaufler, who prepared a series of bulletins on 4-H Club landscape projects. The exhibit included photographs of 4-H nursery field days at Stedman Nurseries, Newfane, and at Shepard Nurseries, Skaneateles. Prize-winning plans, plantings and flower arrangements of the recent state-wide

## CORNUS FLORIDA RUBRA

(Pink-flowering Dogwood)

	10 Rate Each	100 Rate Each
12 to 18 ins., B.R.	\$1.00	\$0.75
18 to 24 ins., B.R.	1.25	1.00
24 to 30 ins., B.R.	1.50	1.25
30 to 36 ins., B.R.	1.75	1.50

All sizes listed below are 60 per cent or more with bloom buds.

24 to 30 ins., B&B, 2-yr.	2.50	2.25
30 to 36 ins., B&B, 2-yr.	3.50	3.00
3 to 4 ft., B&B, 2-yr.	4.25	4.00

## TENNESSEE VALLEY NURSERY

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## PINK FLOWERING DOGWOOD

Cornus Florida Rubra	Per 10	Per 100
6 to 12 ins., 1-yr.	\$ 6.00	\$ 50.00
12 to 18 ins., 1-yr.	8.50	75.00
18 to 24 ins., 1-yr.	12.50	100.00
24 to 30 ins., 1-yr.	15.00	125.00
30 to 36 ins., 2-yr.	17.50	150.00
3 to 4 ft., 2-yr.	30.00	250.00
4 to 5 ft., 3-yr.	50.00	400.00

B&B—50¢ extra per plant.  
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invites your inquiries for Juniper grafts and other liners. Upon request, we will gladly mail you a list of propagators in Kentucky, after which you may contact your favorite grower. Address inquiries to: NICK VERBURG, ANCHORAGE, KY.

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Standard manual on propagation. 470 p., \$5.50.  
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### KOSTER BLUE SPRUCE

Out of 2½-in. rose pots, on own roots.  
Per 100 Per 1000  
3 to 4 ins. \$ 60.00 \$ 550.00  
Shipped in Dixie cups same size as pots.  
Order not less than 25.

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Native collected stock.  
4 to 5 ft. 35.00 300.00  
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Out of 2½-in. rose pots.  
6 to 8 ins. 25.00 225.00  
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	Per	Per
<i>Abelia grandiflora</i> , 2 to 3 ft. NB.....	10	100
<i>Althaea</i> , pink, purple red and white, 2 to 3 ft.....	\$9.50	\$85.00
<i>Buddleia</i> —Charming, Crim-son King, Ile de France and Mt. Everest, white, 2-yr., No. 1.....	4.00	35.00
<i>Deutzia</i> —Crenata and Pride of Rochester		
2 to 3 ft.....	3.50	30.00
3 to 4 ft.....	5.00	45.00
4 to 6 ft.....	7.50	70.00
<i>Deutzia gracilis</i> and <i>gracilis rosea</i> , 12 to 15 ins.....	4.50	40.00
<i>Dogwood</i> , Red Stem,		
2 to 3 ft.....	3.50	30.00
3 to 4 ft.....	5.00	45.00
4 to 6 ft.....	7.50	70.00
<i>Forsythia compacta nana Dwarf</i> , Excellent dwarf shrub, useful where low-growing plant material is required, 18 to 24 ins.....	5.50	50.00
<i>Forsythia</i> —Fortunei, intermedia, spectabilis and suspensa, 2 to 3 ft.....	3.50	30.00
3 to 4 ft.....	5.00	45.00
4 to 6 ft.....	7.50	70.00
<i>Forsythia</i> Spring Glory, 2 to 3 ft.....	4.50	40.00
<i>Forsythia</i> Spring Glory, 3 to 4 ft.....	6.00	55.00
<i>Hydrangea</i> P. G., 2 to 3 ft.....	5.50	50.00
<i>Lilac</i> , Common Purple, 2 to 3 ft.....	5.00	45.00
<i>Lilac</i> , Common Purple, 3 to 4 ft.....	6.50	60.00
<i>Philadelphus virginialis</i> , 2 to 3 ft.....	4.50	40.00
<i>Rosemary Willow</i> , 2 to 3 ft.....	3.50	30.00
<i>Rosemary Willow</i> , 3 to 4 ft.....	5.00	45.00
<i>Snowball</i> —Common and Japanese, 2 to 3 ft.....	7.00	65.00
<i>Snowberry</i> (Symphoricarpos racemosus), 2 to 3 ft.....	3.50	30.00
<i>Spiraea</i> Anthony Waterer, 12 to 15 ins.....	3.50	30.00
<i>Spiraea</i> Anthony Waterer, 15 to 18 ins.....	4.50	40.00
<i>Spiraea</i> —Reeves and Billiard, 2 to 3 ft.....	4.50	40.00
<i>Spiraea</i> , Van Houtte, 15 to 24 ins.....	2.50	20.00
2 to 3 ft.....	3.50	30.00
3 to 4 ft.....	4.50	40.00
<i>Winterberry</i> (Ilex verticillata), 2 to 3 ft.....	7.50	70.00
<i>Winter Jasmine</i> , 2-yr.....	6.00	55.00

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## PINK DOGWOOD WHITE DOGWOOD

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Evergreens  
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Shade Trees  
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Fruit Trees

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Excellent low-growing, extremely early-flowering variety. Catkins are long and slightly curved around stem when fully developed. Ideal florists' variety.

\$1.00 each.

**BEARDSLEE NURSERY PERRY, O.**

contest sponsored by the New York State Nurserymen's Association were shown.

Donald Bushey, professor of landscape extension, displayed a model home placed on a felt ground over a magnetized metal sheet. Scale models with metal base were used to illustrate correct placing of such major landscape units as trees, hedges and the like. The models will be used in televised landscape teaching.

### Directors Meet

The directors of the New York association met on the evening of August 24, and heard reports on the work of several major committees. The legislative committee reported that the association's contacts at Albany, in reference to legislation on landscape contracts and the truck mileage tax, are being continued. The vigilance of the legislative committee in keeping in touch with new legislation was noted.

A committee was appointed to work with Robert Kessler, Alfred, in the matter of nursery activities at the former conservation nursery at Big Flats and at the agricultural and technical institute at Alfred.

Dr. Arthur Bing reported completion of a greenhouse unit at the ornamentals research laboratory, of the New York State College of Agriculture, at Farmingdale. He stated that the next project is the construction of a cold storage unit.

H. B. Little, director of the bureau of plant industry, Albany, reported on present status of the Japanese beetle and other insects. He suggested that work be done by agricultural engineers to perfect equipment for injection of chemicals into the soil for fumigation purposes.

The directors went on record as authorizing a committee to visit Professor MacDaniels concerning the work already accomplished at the ornamentals research laboratory at Farmingdale and to discuss the assured continuance of such work by appropriate means.

The final day of the meetings was held at Geneva. Seventy nurserymen toured the New York state agricultural experiment station. Highlights included viewing the field trials held by the seed-testing laboratory.

**GREEN THUMB NURSERY**, 21420 Sherman way, Canoga Park, Calif., held a barbecue demonstration recently, at which cooked chickens and roasts were given to some of the attendants.

## HEMLOCKS

	Each
24 to 30 ins.	\$2.00
30 to 36 ins.	2.50
36 to 42 ins.	3.25
42 to 48 ins.	4.00
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## CAMELLIA SASANQUA

18 to 24 ins., well-branched plants, B.R., \$1.00.

4 to 6 ft., B&B specimen plants for landscape work, 75c per foot.

Bed liners, branched, 50c each.

**EAST COAST FLOWER FARMS**  
PINK HILL, N. C.

## HEAVY POTTED TAXUS LINERS

From 3 1/2 x 4-in. rose pots; potted spring of 1953. Carried under lath with overhead irrigation.

	Per 100
6 to 8 ins.	\$30.00
8 to 10 ins.	38.00

3320 *Taxus cuspidata*  
2680 *Taxus media*  
1380 *Taxus hicksii*

Packing at \$2.00 per 100.

**THE LEICHHARDT HILLVIEW NURSERY**  
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# LINERS FROM OPEN BEDS AND FIELD ROWS

All outside-grown — in the open air — all strong and tough! They have to be to grow right out in the full sun.

Nothing shade-grown except the rooted cuttings and the Mahonia Bealei seedlings which are under light shade.

All go through the winter unprotected and dormant—ready to burst into normal growth for you next spring.

## PRODUCED BY THE NEW PHYTOTTEKTOR SYSTEM

BG means bed-grown.  
F means field-grown.  
RC means rooted cutting.  
S means seedling.  
SWC means softwood cutting.  
T means transplanted.

All prices are given in cents per each.

**ABELIA EDWARD GOUCHER**—T, F, 8 to 15 ins., 18c; 12 to 15 ins., 22c; 2-yr., T, F, 15 to 18 ins., 30c.  
**ABELIA GRANDIFLORA**—T, F, 8 to 12 ins., 15c; 12 to 15 ins., 20c; 2-yr., T, F, 18 to 24 ins., 30c.  
**BERBERIS JULIANAE**—T, F, 4 to 6 ins., 15c; 6 to 9 ins., 22c; 9 to 12 ins., 30c.  
**BERBERIS MENTORENSIS**—RC, 8c; T, F, 6 to 9 ins., 15c; 9 to 12 ins., 20c; 2-yr., T, F, 12 to 15 ins., 25c.  
**BERBERIS SARGENTIANA**—T, F, 6 to 9 ins., 20c; 9 to 12 ins., 25c; 12 to 15 ins., 30c.  
**BUXUS SEMPERVIRENS**—T, F, 4 to 6 ins., 10c; 6 to 8 ins., 15c.  
**CHAENOMELES**—(CYDONIA), hybrid, upright, rich red, nonfruiting—BG, 6 to 9 ins., 10c; 9 to 12 ins., 15c.  
**CHAENOMELES**—(CYDONIA), hybrid, deep pink—BG, 6 to 9 ins., 10c; 9 to 12 ins., 15c.  
**CHAENOMELES (CYDONIA) LAGENARIA** ALBA, pure clear white—BG, 6 to 9 ins., 12c; 9 to 12 ins., 17c.  
**ELAEAGNUS FRUTLANDI**—BG, 6 to 9 ins., 12c; T, F, 9 to 12 ins., 16c; 12 to 15 ins., 20c.  
**ELAEAGNUS PUNGENS REFLEXA**—T, F, 9 to 12 ins., 16c; 12 to 15 ins., 20c.  
**EUNYMUS ALATUS COMPACTUS**—RC, 7c.

**EUNYMUS FORTUNEI CARRIERI** — (True)—T, F, 4 to 6 ins., 15c; 6 to 9 ins., 20c.  
**EUNYMUS JAPONICUS**—T, F, 8 to 12 ins., 20c.  
**EUNYMUS KIAUSCHOVICUS**, Largeleaf patens—RC, 6c; T, F, 9 to 12 ins., 15c; 12 to 15 ins., 20c; 2-yr., T, F, 12 to 15 ins., 25c; 15 to 18 ins., 30c.  
**EUNYMUS KIAUSCHOVICUS**, Small-leaf patens—RC, 6c; T, F, 9 to 12 ins., 15c; 12 to 15 ins., 20c; 2-yr., T, F, 15 to 18 ins., 35c.  
**GINKGO BILOBA**—S, F, 4 to 6 ins., 6c; 6 to 8 ins., 8c; 2-yr., S, F, 12 to 18 ins., 17c; 18 to 24 ins., 25c.  
**HYDRANGEA P.G.**—T, F, 12 to 15 ins., 15c.  
**ILEX CORNUTA**—RC, 8c; BG, 6 to 8 ins., 12c.  
**ILEX CORNUTA BURFORDI**—RC, 8c; BG, 6 to 8 ins., 12c; 8 to 12 ins., 15c.  
**ILEX CRENATA CONVEXA (BULLATA)**—RC, 7c.  
**ILEX CRENATA ROTUNDIFOLIA**—RC, 7c; BG, 4 to 6 ins., 12c; 2-yr., BG, extra heavy 8 to 12 ins., 30c.  
**ILEX HOWARDI**—RC, 15c; BG, 6 to 9 ins., 20c; 9 to 12 ins., 30c.  
**ILEX VOMITORIA FEMINA**—T, F, 6 to 9 ins., 20c; 9 to 12 ins., 30c.  
**JASMINUM FLORIBUNDUM**—BG, 6 to 8 ins., 7c; 8 to 12 ins., 10c; T, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.  
**JASMINUM NUDFLORUM**—BG, 6 to 8 ins., 7c; 8 to 12 ins., 10c; T, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.  
**NOTE**—All Juniperus from small, greenhouse type, cuttings transplanted to field.

**JUNIPERUS HETZLI**—T, F, 9 to 12 ins., 22c; 12 to 15 ins., 35c.  
**JUNIPERUS HORIZONTALIS PLUMOSA** (Andorra)—T, F, 6 to 9 ins., 17c; 9 to 12 ins., 25c.  
**JUNIPERUS PFITZERIANA**, green—T, F, 4 to 6 ins., 15c; 6 to 9 ins., 20c; 9 to 12 ins., 27c; 12 to 15 ins., 40c.  
**JUNIPERUS PFITZERIANA**, blue—T, F, 6 to 9 ins., 22c; 9 to 12 ins., 30c; 12 to 15 ins., 45c.  
**LIGUSTRUM LUCIDUM**—BG, 6 to 9 ins., 15c; 9 to 12 ins., 20c; T, F, 12 to 18 ins., 30c.  
**LIGUSTRUM SINENSE PENDULUM** (Weeping Privet)—BG, 6 to 8 ins., 8c; 8 to 12 ins., 10c.  
**MAHONIA BEALEI**—1-yr., seedlings suitable for potting, fall, 5c; spring, 6c.  
**PRUNUS CAROLINIANA** (Laurel Cherry)—S, F, 4 to 8 ins., 6c; 8 to 12 ins., 8c.  
**PRUNUS LAUROCERASUS OFFICINALIS** (English Laurel Cherry)—RC, 10c.  
**PRUNUS LAUROCERASUS SCHIPKAENSIS** (Hardy Laurel Cherry)—RC, 10c; T, F, 6 to 9 ins., 20c; 9 to 12 ins., 30c.  
**SPRAEA ANTHONY WATERER**—T, F, Bushy, 4 to 6 ins., 10c; 6 to 9 ins., 15c; 9 to 12 ins., 20c.  
**VIBURNUM BURKWOODI**—SWC, T, F, own root, 8 to 12 ins., 20c; 12 to 15 ins., 35c.  
**VIBURNUM RHYTIDOPHYLLUM**—RC, 10c; T, F, 6 to 9 ins., 20c; 9 to 12 ins., 30c.

Order now from the list above. If you don't see your variety there, tell us what you are interested in. We have smaller quantities of numerous other varieties and sizes.

### TERMS

**FREE PACKING:** Rooted cuttings and liners in sphagnum moss and plastic sheet. F.O.B. Winchester, Tenn. Include payment covering parcel post charges; otherwise shipped express collect. Established accounts—net 30 days. Strictly wholesale. Write on letterhead or send permit number.

### HARVEY TEMPLETON, JR.

#### TOP GRAFTING WITH PLASTICS

(Continued from page 19)

tion B, page 19). Thus, the entire scion and union are encased in the plastic tubing. Next, a small wad of damp (not wet) sphagnum is placed into the tube and packed lightly down around the union at the bottom of the gathered tube. Do not pack the sphagnum hard but leave it light and fluffy so that air can move easily around the union tissues. A teacup of sphagnum is plenty, even for the largest application. The purpose of the sphagnum is simply to furnish humidity within the unit.

After insertion of the sphagnum draw the top of the tube around the stock-shoot and tie it securely. In all my tying operations I use plastic tape, as it will not strangle, needs no attention and is unaffected by the elements. Twine can be used as can raffia, of course, but either of these must be watched to see that strangulation of the plant does not occur.

The third step consists of simply draping a thin muslin cover over the entire unit to prevent sunburn during the formation of the union. If desired, this shade can be in the form of a tube (like the plastic tube)

and may simply be slid on and secured the same as the plastic tube. (See illustration C, page 19.)

No further attention is required until the scion starts to grow, at which time a little air should be admitted by simply loosening the top tie and re-tying it so that the top gaps open. After a few days more the top tie should be removed completely, and the shade cloth can come off at this time. (It is always best to remove any shade on the morning of a cloudy day if possible, so that the plant can harden somewhat before exposure to full sunlight.) After a few days more, the tube and sphagnum should be removed completely, but the binding on the union should not yet be removed. If a nonflexible binding has been used, it should be removed and replaced with a looser application to give the tissues a chance to expand. The reason for not removing the union binding at this stage is that the union tissues are still soft and immature, and the binding is needed for hardening and support. This binding should be left on for several weeks after the growth of the scion has started, to prevent breakage of the union.

Snagging (cutting away the original stock top) will be governed by

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U.S. HWY. 64-61A  
WINCHESTER - TENNESSEE



All under irrigation. Large mechanical digger assures entire root system. New 25' x 160' cold storage, keeps stock in perfect condition. Visit our nursery and see the superior quality of our stock. Book orders now for Fall and Spring delivery.

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**Ozark** SINCE 1895  
**NURSERY COMPANY**  
TAHLEQUAH, OKLAHOMA

**FLOWERING SHRUBS & ORNAMENTAL TREES**

	Per 100	Per 1000
<b>Abelia Grandiflora</b> (Glossy Abelia)		
4 to 6 ins., C., field-grown	\$ 4.50	\$ 40.00
6 to 12 ins., C., field-grown	6.50	60.00
12 to 18 ins., C., field-grown	8.50	80.00
18 to 24 ins., 3 br. and up	25.00	200.00
2 to 3 ft., 4 br. and up	50.00	
<b>Hydrangea paniculata Grandiflora</b> (Peegee Hydrangea)		
4 to 6 ins., C.	\$ 4.00	\$ 30.00
6 to 12 ins., C.	6.00	50.00
12 to 18 ins., 2 br. and up	9.00	80.00
18 to 24 ins., 3 br. and up	15.00	
2 to 3 ft., 4 br. and up	25.00	
<b>Spiraea Vanhouttei</b> (Van Houtte Spiraea)		
6 to 12 ins., C.	\$ 3.00	\$ 25.00
12 to 18 ins., C.	4.00	35.00
12 to 18 ins., 2 br. and up	6.00	50.00
18 to 24 ins., 3 br. and up	11.00	100.00
2 to 3 ft., 4 br. and up	20.00	100.00

**Cornus Florida**

(White Flowering Dogwood)		
18 to 24 ins., 2-yr., S.	\$ 6.00	
2 to 3 ft., 2-yr., S.		11.00
2 to 3 ft., well-br.	\$ 4.50	\$ 35.00
3 to 4 ft., well-br.	7.00	60.00
4 to 5 ft., well-br.	10.00	90.00
5 to 6 ft., well-br.	14.00	130.00
6 to 8 ft., well-br.	19.00	180.00
(Add 50c per plant for B&B)		

**NATIVE EVERGREENS**

Collected stock

<b>Rhododendron Maximum</b> , <b>Kalmia latifolia</b> , <b>Ilex Opaca</b> , <b>Tsuga Canadensis</b>	Per 100	Per 1000
3 to 6 ins., S.	\$2.50	\$20.00
6 to 9 ins., S.	3.50	30.00
9 to 12 ins., S.	5.50	50.00

**CUMBERLAND PLATEAU NURSERY**  
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**Wight NURSERIES** CAIRO, GA.**ROSEMARY WILLOW**

(Salix Rosmarinifolia)

Very attractive fine-textured specimen shrub. Long narrow linear leaves, bluish-green above, white underneath. Stems rich mahogany. Compact upright growth.  
Available in 1-yr. stock only...\$1.00 each.  
**BEARDSLEE NURSERY PERRY, O.**

the size of the stock plant used in the operation. It may be possible to remove entirely the stock top of a young tree in one season, but where older stocks are used this removal will have to be spread over two or more years to prevent destruction of the balance between top and root-system. When large stocks are used the snagging should be accomplished by removing the branches from the bottom up, which process forces the sap up to the scion. A further forcing of growth to the scion can be accomplished by shearing the new growth of the remaining stock top just as a hedge would be sheared. This prevents further development of the stock plant, but leaves sufficient leaf surface to feed the root system until the scion has attained sufficient leafage to take over the job.

Because this technique starts with a well-developed root system and the only desire is to develop a new top, one can obtain a good-size specimen in but a fraction of the time required to develop a complete plant. Because the job can be done on the spot, there is no secondary shock and setback from transplanting, an occurrence which often destroys grafted plants. The stocks for this operation can be carried in tubs, when desired, for ease of handling or moving.

This technique was designed for open-air application under full sun and is best applied thus for several reasons. When plants are propagated out of doors, there is little trouble with destructive fungus diseases, molds, etc., because all the rays of the sun penetrate these plastic materials and prevent the development of these troubles. Because the ultraviolet rays penetrate the plastic the scion does not become sensitive to these rays, as is the case with propagation under glass, and since the plant is accustomed to the sun there is little danger of sunburn. The gas permeability of the plastic material allows breathing during the operation so that there is no suffocation of the enclosed material. This factor leads to the development of clean healthy union tissues which facilitates free movement of sap between the scion and stock and gives rapid and healthy plant development.

**Time Required**

There would appear to be a considerable period of time from the beginning of these experiments to their presentation to nurserymen, but one must remember that plants, and trees in particular, grow slowly,

**SPECIMEN B&B EVERGREENS FOR FALL**

1000 Canadian Hemlock

2 1/2 to 3 ft.

3 to 3 1/2 ft.

3 1/2 to 4 ft.

3000 Junipers

Blue Hetz; Standard Pfitzers,

Golden and Compact

18 to 24 ins.

2 to 2 1/2 ft.

2 1/2 to 3 ft.

1000 Taxus

In various varieties and sizes.

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These trees, shrubs, evergreens and roses are single root-wrapped with the best waterproof paper, and we use moss and shingle tow mixed for packing the roots of each plant. They are tagged with colored tags showing each plant in natural color, ready to display on your counters for resale, also for road stands. Write us for special prices on truckload or carload lots.

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Deciduous Shrubs, Roses

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and that a great many experiments have been made during this period to determine the best type of material, the proper density for proper gas movement, the effectiveness of this method on varied types of plants and the all-important consideration, what the after development of the plant will be.

No technique would be worth the space required to write about if the plants so produced did not develop into healthy beautiful specimens which were a definite credit to their race. These desirable considerations are so thoroughly realized using these plastic techniques that they form the basis for the author's enthusiastic acceptance of them over conventional methods.

Although we now know much concerning the startling abilities of plastics in horticulture, we must remember that most of these plastic materials are only a few years old, and that the full range of their capabilities can only be guessed. However, of one thing we are sure: We are going to have better plants, more quickly and more easily, with the aid of plastics.

#### TEXAS CONVENTION

[Continued from page 8]

The first portion of Tuesday morning's program was sponsored, as is customary, by the Texas Landscape Association, which presented Prof. Hideo Sasaki, assistant professor of regional planning and landscape design, Harvard graduate school of design, Harvard University, Boston, Mass., and W. Hal McGraw, vice-president of the Texas Home Builders Association, Dallas. Professor Sasaki gave an informative talk on city planning and modern design, which was illustrated by slides. Mr. McGraw discussed the status of the FHA housing program and then pointed out that it would greatly benefit nurserymen, as 1,200,000 homes are expected to be started this year, the second largest number of homes in any year since World War II.

Before adjournment of the morning session, Chairman Jack Jones, of the constitution and bylaws committee, passed out to members a prospectus on proposed changes in the bylaws and dues payments and called for a preliminary ballot by nursery firms on the measures.

During the afternoon conventioners divided into three groups for discussion purposes—a landscape group; a wholesalers and rose growers' group, and a retailers' group. At the landscape session colored slides of

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landscape projects were shown, and Professor Sasaki, guest speaker at the convention, was given the floor and freely criticized the different plantings in a most constructive way.

Nurserymen convening at the wholesalers' session heard an address by L. L. Baumgartner, representing Nursery Specialty Products, Inc., Croton Falls, N. Y., who discussed three products for nursery use—Wilt-Pruf, Endothal and Cyanamid.

The retail nurserymen held a discussion of the advantages and disadvantages of the complete garden center. The consensus was that the complete garden center is the coming thing, and, even if only a small profit is made on garden accessories, it is worthwhile to carry them to stimulate customers to call at the nursery for all gardening needs. A plan for a uniform gift certificate was discussed, and the matter of a uniform guarantee was considered, with recommendations formulated on both subjects and referred later for action by the general membership.

### Past Presidents' Banquet

The annual past presidents' banquet was held Tuesday evening in the ballroom of the Hotel Texas. Ten past presidents of the Texas association and their wives were present for the occasion. Frank Cornelius presided as master of ceremonies and presented three T. A. N. special awards for outstanding service to John L. Botter, Alvin; Ralph Ellis Gunn, and A. R. (Bud) Pate, Fort Worth. Mr. Botter received his award for service as the past year's membership chairman; he brought in 14 new members. Mr. Pate received his award for work as general chairman of the convention and also for work as a membership captain, with the introduction of 16 new members to his credit. Mr. Gunn's award was for service as chairman of the research and education committee.

James Fitzpatrick, Sherman, then made the presentation of the Arp award, as he was the recipient of the 1953 award. The Arp award is given annually for outstanding service to the nursery industry of Texas. Mr. Fitzpatrick presented the 1954 Arp award to Clark Kidd, Arp Nursery Co., Tyler, stating in his presentation of the huge engraved silver bowl that it is "no longer an Arp award, but a T. A. N. award."

James Lauden then presented the annual past presidents' award, a beautifully engraved plaque, to the outgoing president of the T. A. N., Frank S. Cornelius.

The final sessions of the convention were held Wednesday morning,

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AZALEAS - CAMELLIAS  
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August 25. Notable business of the morning was consideration of the recommendations which developed from the retail session of the trade meetings regarding (1) a plan for a uniform gift certificate for T. A. N. members and (2) a plan to establish a uniform policy on adjustments and replacements of nursery stock. The recommendations were referred to the board of directors for further action.

Curtis Porterfield, A. A. N. administrative assistant, spoke to the assemblage on current problems on the national level, touching briefly on such matters as pending transportation and parcel-post legislation, foreign plant imports, plant patent regulations and other matters of concern to the trade. He announced that a new TV film in color about the nursery industry is being prepared. It will be the first of a series and will deal with landscaping the home grounds.

President Cornelius announced that L. A. Dean had accepted an appointment by the board of directors as general chairman of the 1955 convention, which will be held at Tyler.

After a spirited campaign involving four invitations from Texas cities, Houston was selected as the 1956 convention city.

President Cornelius announced that a "Plant Texas" program is being set up and may possibly be launched in conjunction with the Texas rose festival, in October.

Mancill Allen advised that a chapter of the National Landscape Nurserymen's Association is being formed encompassing the same territory as region 5 of the A. A. N. He urged members doing landscape work to join.

After a brief message by incoming President Gene Howard, the 1954 convention was adjourned.

#### LANDSCAPE GROUP MEETS

Two meetings set aside for business of the Texas Landscape Association were held in connection with the annual T. A. N. convention. These were the annual midyear business meeting of the association and the meeting of the executive committee.

The membership in the association has increased 25 per cent since the 1953 midyear meeting, as a result of a concentrated membership drive.

This year the association designed a beautiful garden display for the convention in the lobby of the Hotel Texas.

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## CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary  
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### LOS ANGELES ELECTS

Election of officers for the coming year and a discussion of the California Association of Nurserymen's group insurance program featured the regular meeting of the Los Angeles chapter, held August 25 in the dining room of Carpenter's Santa Anita restaurant, Arcadia.

Elevated from the vice-presidency to head the group for the next year was O. L. Weeks, Weeks Wholesale Rose Grower, Ontario, a member of the chapter's board of directors since 1952. Mr. Weeks has been active in association business for years as a member of both the Los Angeles and Inland chapters and is also a member of the American Association of Nurserymen and All-America Rose Selections.

Replacing Mr. Weeks as vice-president is Lynn Mossholder, Mossholder Nursery, El Monte, who specializes in the wholesale growing of azaleas. He has served the chapter for many years as a director and once was treasurer. Retained for another term in office as secretary and treasurer, respectively, are Jim Meadows, manufacturer's representative, Altadena, and Ralph P. Klages, Coolidge Rare Plant Gardens, Pasadena.

Holdover directors retained are Ernie Bordier, Bordier's Nursery, Covina, and Charles Crum, general manager of Rosedale's Nurseries, Monrovia. New directors selected who will assume office in October are Harold Betts, owner of Betts Nursery, Anaheim; Norman Springer, sales manager for Bandini Fertilizer Co., Los Angeles; Mark Paulson, Monrovia Nursery Co., Monrovia; Jim Perry, Perry's Plants, Montebello, and Les Marshall, Marshall's Camellia Nursery, San Gabriel.

As the featured speaker on the program, Pressley Neville Jones, group insurance representative for the C. A. N., discussed the plan that is now in effect in 15 chapters of the state association. From an outline of the general benefits of the plan, he explained thoroughly each benefit, inviting questions from the audience on any point needing clarification. In closing, Mr. Jones presented recent changes in the plan undertaken

by the board of trustees to broaden the benefits.

He commended the board of trustees for their foresight in the rearrangement of the benefits. Chairman of this group is Lynn Mossholder. Other members are Ralph P. Klages; David L. Cunningham, Descanso Distributors, Chino; Robert E. Weidner, Buena Park Greenhouses, Buena Park, and Martin Usrey, Monrovia Nursery Co., Monrovia.

Guests at the meeting with Mr. Jones were representatives of two of the insurance companies participating in the group plans. They were Carl Woodward, group manager, Lumberman's Mutual Casualty Co.,

and Fred Ferguson, group manager, Washington National Life Insurance Co., both of Los Angeles.

Ed. McNeill

### PENINSULA GROUP ELECTS

Members of the Peninsula chapter of the California Association of Nurserymen elected a new slate of officers at their August 12 meeting, held at the Chukker, San Mateo. The slate proposed by the nominating committee and presented by James H. Wilson, chairman, was adopted without change, as follows: William E. Schmidt, Schmidt Nursery, Palo Alto, president; Walter Borchers, W. B. Clarke & Co., San Jose, vice-president, and John Coulter, Coulter's Nursery, San Carlos, secretary. Juel Christensen, treasurer since the chapter was chartered, will serve another term in that capacity.

New directors will be Ralph Davey, the Flower Garden, Palo

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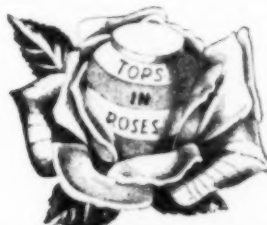
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Alto; Walter Prehn, Floral Arts Nursery, San Francisco, and Ernest Uenaka, Cupertino Nursery, Cupertino. Ernest Esch, retiring president, will become a director for a 2-year term.

The program honored James H. Wilson, first president of the chapter and current president of the California Association of Nurserymen. He was presented with a handsome leather case suitable for carrying golf clothes, a gift from the members of the chapter. In responding to the tribute paid him by President Ernest Esch, Mr. Wilson reviewed some of the outstanding accomplishments of the chapter and discussed the progress made in public relations during his term of office as president of the state association.

### FIRE BLIGHT CONTROL

Fire blight, century-old plague of fruit trees, has been virtually wiped out in large scale commercial orchard tests employing a spray of

the antibiotic drugs terramycin and streptomycin, John C. Dunegan, a United States Department of Agriculture scientist, announced at a meeting of the American Phytopathological Society held August 27 at Estes Park, Colo.

Mr. Dunegan said that the antibiotics gave 98 per cent control of the disease. This was the first successful large-scale commercial trial with antibiotic drugs. Four other leading plant scientists corroborated Mr. Dunegan's conclusions.

For the experiments, 600 bartlett pear trees were set aside in a 400-acre section of the DiGiorgio Orchards, Marysville, Calif. Half were sprayed with a mixture of the two antibiotics known as agri-mycin. The other half received a water spray. The inclusion of terramycin in the spray formula used by Mr. Dunegan was explained as a precaution against the possibility of the bacteria's developing a resistance to streptomycin alone and rendering it ineffective.

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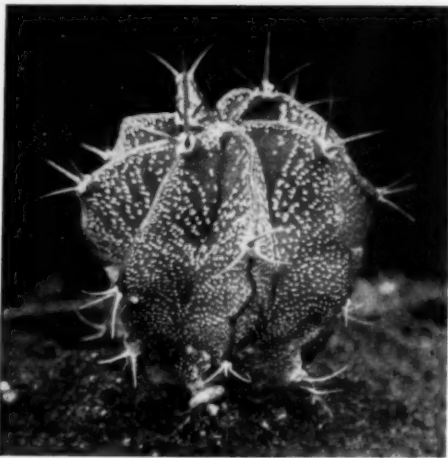
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### SARATOGA FOUNDATION GIVES PROGRESS REPORT

A large group of interested nurserymen, educators and others met August 20 at the Saratoga Horticultural Foundation, Saratoga, Calif., for a report on the progress of this unique institution. The purpose, as given in the introductory remarks by the founder, was to give a visual demonstration of the work and to let the trade and other interested persons see not what was being done, but how. The foundation is a non-profit research organization founded for the purpose of developing trees and shrubs which are suited to west coast conditions. The director is Maunsell Van Rensselaer.

The group toured the grounds for about an hour before collecting for a series of short talks by interested individuals. On the tour was seen the progress that is being made in the selection of desired types of certain trees and shrubs. This selection is the primary purpose of the foundation and while there is yet much to be done the results to date have exceeded the expectations of all concerned.

There is more to it than merely selection, however. It has been necessary to learn much about propagation, about pest control and soil and general cultural conditions that best suit the many different kinds of trees and shrubs under study. The solution of these latter problems has been the most difficult, and it is in these that the most progress has been made.

#### Speakers

Among the speakers, in addition to Mr. Van Rensselaer and Ray D. Hartman, the foundation's president, were Fred J. Oehler, treasurer of the foundation and an executive of the

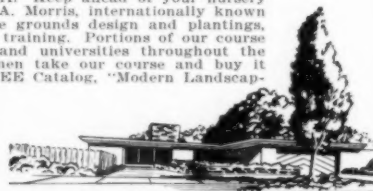
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*Juniperus horizontalis plumosa* (Andorra Juniper)  
12 to 15 ins., twice transplanted, B.R. near specimens. 65.00

*Juniperus sabina* (Savin Juniper)  
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*Juniperus sabina tamariscifolia* (Tamarix Savin Juniper)  
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*Juniperus sabina vancehoii* (Von Ehron Juniper)  
9 to 12 ins., twice transplanted, B.R. near specimens. 49.00

*Juniperus squamata meyeri* (Meyer Juniper)  
9 to 12 ins., twice transplanted, B.R. near specimens. 49.00

*Juniperus virginiana tripartita* (Fountain Juniper)  
6 to 9 ins., twice transplanted, B.R. near specimens. 41.00  
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6 to 9 ins., twice transplanted, B.R. specimens..... 65.00

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*Rhododendron maximum* (Rosebay Rhododendron)  
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15 to 18 ins., twice transplanted, B.R. hedge grade... 102.00

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12 to 15 ins., twice transplanted, B.R. hedge grade... 36.00  
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*Thuja occidentalis pyramidalis* (American Pyramidal Arborvitae)  
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American Trust Co.; Lloyd Jorkensen, of San Jose Junior college; Harry Sheppard, head, department of landscape design, University of California; Robert Deering, chairman, division of landscape management, University of California, and Dr. H. E. Burk, retired entomologist, United States Department of Agriculture.

In his remarks Mr. Ochler told that the foundation has been entirely financed by Mr. Hartman, of Leonard Coates Nurseries, San Jose, Calif., and that he has done it all as a tribute to the trade which has been so good to him for so many years. He added that in the past year the foundation has, by limiting its activities, been running within its budget and that he felt there is so much to be done that he is urging the trustees to start a drive among the nonprofessional horticulturists for funds.

Professor Deering reported on the beginning of the second year of the division of landscape design at the Davis campus and reviewed the courses being offered there. The 4-year program leads to a degree of bachelor of science.

Lloyd Jorkensen told of a new course in vocational horticulture being offered at the San Jose Junior

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college. It will meet two nights each week for two years beginning this September. In addition to the classroom work the students will be given on-the-job supervision by men trained in various forms of horticultural endeavor.

After the tours of the grounds and the talks and excellent refreshments it seemed to be the thought of the hosts that the group would disperse but so interested were they in what they had already seen and heard that many stayed for a long time to continue their discussions. It is the general feeling in the horticultural trade in California that the Saratoga Horticultural Foundation is one of the most ambitious and most valuable contributions that have been made to the science of horticulture and the nursery industry.

W. B. B.

WATKIN & SIBBALD, San Anselmo, Calif., has been awarded two state contracts, one for improvement of the grounds at Paso Robles School for Boys and the other to develop Napa State hospital grounds.

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### MORE EVERGREENS ON FARM

There has been a noticeable trend toward planting more evergreens on Idaho farms during the past 10 years, according to calculations made by the University of Idaho college of agriculture.

In 1943, evergreens comprised 12 per cent of the total trees ordered from the University of Idaho farm forestry nursery. By contrast, evergreens made up 32 per cent of the past year's orders.

That figure has still more meaning when it is considered that the 1953 farm tree sales were 58 per cent greater than the sales of 10 years ago. Farmers bought about three times as many evergreens the past year as they did during 1943.

Farmers like the year-round protection the evergreens afford. Few farm windbreaks are planted now without at least one evergreen row. Many planted in recent years have been composed entirely of evergreens.

Farmer interest in Christmas tree production is another reason cited for the increase in the use of evergreens. Orders for Douglas fir, the chief Christmas tree species, were five times greater during 1953 than 1943.

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### Phenyl Mercuric Acetate Aids Turf Maintenance

Root development of most turf grasses has shown benefit from the use of phenyl mercuric acetate, according to a Rhode Island study by agronomists J. A. Simmons and J. A. DeFrance. The chemical showed no adverse effects on the turf grasses while the control of crab grass and turf disease appeared to aid development of a dense healthy turf. This condition, the study showed, is apparently correlated with an active, healthy root system.

The study, begun at the Rhode Island experiment station in 1946, showed phenyl mercurials had no lasting harmful effects on turf, although some grasses discolored temporarily. The Colonial bent and fescue plants showed considerable

discoloration at a heavy rate of application, but Kentucky bluegrass showed only slight effect at the same rate. All discoloration disappeared when treatment was concluded.

Later tests were made to show the effects on root areas. These were conducted both in the greenhouse and in field plots. Table 1 lists the results on old grasses.

Results indicate that not enough phenyl mercuric acetate remains in the soil long enough to damage root development. A further comparison between phenyl mercuric acetate and potassium cyanate showed that at both heavy and light rates of application, there were more roots on phenyl mercury treated plants.

Table 1. Root weights of velvet bent grass and C-1 bent grass maintained under putting green conditions and treated with 1 1/4 ounces of a 10 per cent solution of phenyl mercuric acetate per 1000 sq. feet of area.

Grass and Date Planted.	No. of Annual Applications	No. of Years Treated	Root Weights in Lbs., Per 1000 Sq. Ft. Area	
			Treated	Nontreated
Velvet bent 1938.....	6	4	237	174
Velvet bent 1951.....	6	2	97	87
C-1 creeping bent 1940.....	6	3	140	131
C-1 creeping bent 1951.....	6	2	109	90

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Mahaleb Cherry Seedlings  
Mazzard Cherry Seedlings  
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American Plum Seedlings  
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### Hawaiian FERNWOOD TREE FERN TOTEM POLES

Size	Per ctn.	Wt.	Per 10 ctns. or more, ea.
1 x1 x16 ins.	100	12	\$12.00 \$11.00
1 1/2 x1 1/2 x18 ins.	64	18	8.50 8.40
2 x2 x18 ins.	36	18	6.50 5.90
2 x2 x24 ins.	36	24	9.00 8.50
2 x2 x30 ins.	25	22	10.00 9.50
2 x2 x36 ins.	25	26	11.75 11.00
3 x3 x36 ins.	9	20	9.00 8.50
3 x3 x48 ins.	9	27	12.15 11.50
4 x4 x48 ins.	4	22	9.36 9.00
4 x4 x60 ins.	4	27	11.76 11.40

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SEQUOIA NURSERY-VISALIA, CALIF.

### IOWA SUMMER MEETING

[Continued from page 15]

Much interest was shown also in the garden and gift shop located at Platt's Nursery. It is of modern design and has a protective bin arrangement used for display of bedding plants and geraniums in the early part of the season and for potted roses later. The nursery had experienced severe wind damage to plants placed in the open, and the protective bins with glass sides serve a real need. They have also proved to be of great value during rainy periods when damage to the blooms of bedding plants and such items as geraniums invariably occurs, especially during heavy downpours.

At the annual banquet, held in the President hotel, Waterloo, Dr. E. S. Haber, of Iowa State College, informed the gathering of the introduction of the new Black Hawk raspberry developed by the college. It was also announced that the Jonathan and Delicious cross, which has been watched with much interest in the college orchard during the past year, is now to be turned over to the nurserymen for propagation. The name Jonadel has been selected for it. Its outstanding features are resistance to fire blight, as found in the Delicious apple, combined with the outstanding quality and flavor of the Jonathan.

The next speaker, Dr. J. P. Mahlstedte, also of Iowa State College, spoke on propagation in mist houses. He advocated that greater consideration be given to alternate misting through the use of timers and stated that his experience has shown that plants which thrive under a continuous mist seem to do equally well under an alternating mist. Ten seconds on and 20 seconds off, or 20 seconds on and 30 seconds off, during the daylight hours may prove as satisfactory as continuous mist and considerably more thrifty.

Dr. H. M. Harris, entomology department, Iowa State College, reported on current experiments in the control of red spider on evergreens and fruit trees. Of the materials tested, Malathion proved best for spider control. Aramite and Dimite were also most satisfactory but somewhat more expensive.

On the morning of August 26 the convening nurserymen were guests of John Deere & Co. and spent more than two hours viewing the manufacture of tractors from foundry to final assembly.

A smorgasbord dinner was enjoyed at 1 p. m. After dinner, a panel, headed by Harold Parnham, Robin-

son & Parnham, Des Moines, dealt with the problems of modern landscaping. From this discussion came several ideas of importance. It was observed that, if a shrub is worth using in a border at all, it is worth using frequently enough so that the effect is striking, whether the plant is known for its bloom, foliage or wood. It was stated that tall trees in front and shorter ones in back heighten a low house; short trees in front and tall trees in back lower a house. The panel suggested serious consideration of the setting in which the modern home is placed. Mass corner plantings, with limited accent around the entrance, were described as far more desirable than continuous plantings around the four sides of a home—a point on which the panel discussion concluded.

The matter of nursery guarantees was the final subject discussed, and the Waterloo nurserymen were complimented on their formulation of a uniform replacement arrangement and on the printed posters, which are prominently displayed stating their policy, at their places of business.

## VIRGINIA SUMMER MEETING

[Continued from page 18]

ing expedition, so it was never determined who should be given credit for the prize catch.

For those who preferred not to take to the water, there were tours of the local nurseries and the Mariners' museum. The museum is located in an attractive park and features an extensive collection of ships and models of ships, from some of the oldest to the most modern, together with displays of parts and equipment used on the ships.

The customary banquet and cocktail hour were held Monday evening. Murray Via, vice-president of the First National Exchange bank, Roanoke, Va., was the banquet speaker, taking as his subject, "What's Right for Virginia Nurserymen?" Mr. Via pointed out that gardening is America's greatest hobby. As Mr. Via owns a country home surrounded by azaleas and rhododendrons, he spoke of the pleasures of gardening from the standpoint of actual experience. He, too, urged the nurserymen to support the "Plant Virginia" program, to make the state more beautiful, to increase real estate values and by so doing to create more business.

MRS. J. OLIVER PRINCE, Tabor City, N. C., has recently opened a camellia and azalea retail business.

## WANTED and FOR SALE ADS

### HELP WANTED

#### MANAGER

Wanted for new nursery sales development being built in connection with a modern garden center in the southeast's most progressive and comfortable year-round city, 1,050-ft. altitude. Horticultural degree, some nursery sales, planning and promotional experience with aggressiveness desired. No bargain-counter type wanted. Send full particulars, including photograph, to

DONALD HASTINGS, JR.  
Box 4088 Atlanta, Ga.

### HELP WANTED

Have you an employment problem? Space in these columns is available at low cost to nurserymen who are seeking prospective employees. A want ad in the American Nurseryman puts your job offering before interested and qualified applicants at a fraction of what it would cost you to contact them in any other way.

AMERICAN NURSERYMAN  
343 S. Dearborn St. Chicago 4, Ill.

### HELP WANTED

#### LANDSCAPE SALESMAN

An old, established eastern nursery has an opportunity for an experienced, self-sufficient landscape salesman. The man must have a proven record of top performance in landscape sales. We are willing to offer such a man high earnings and unusual security. Write to Box 104, care of American Nurseryman.

### HELP WANTED

#### Foreman

One of the oldest and largest landscape contracting and nursery firms in Philadelphia has an opening for a qualified man. Highly paid and permanent position, with salary and bonus. State age and experience.

AMERICAN FORESTRY SERVICE CO.  
Lancaster Pike and Indian Creek Rd.  
Philadelphia 31, Pa.

### HELP WANTED

Propagator. Eastern nursery interested in man to take over propagation department. Please advise age, experience and salary expected in first letter. Write to Box 97, care of American Nurseryman.

### HELP WANTED

Working partner for going nursery. Or we will sell the entire stock at invoice, or will sell stock, land, equipment and dwelling. 75 acres of land, 7 acres growing and finished stock and 8-room house, partly modernized. Good, established trade and reputation. Stock and orders on hand for immediate income. Address Box 105, care of American Nurseryman.

HELP WANTED—Couple on nursery-farm 50 miles east of St. Joseph, Mich. Man interested in good future by promoting outlet connections for a new nursery and landscaping business. Owner can do propagating but need help of interested worker to keep business continually rolling and increasing. Bankers helpful but revenue must grow. Wife to keep house and business records. Home and living furnished with per cent of profits. State additional salary expected. Give full qualifications and references in first letter. Opening October 1. Write Box 106, care of American Nurseryman.

SITUATION WANTED—Deaf, honest man of good habits wants year-round outdoor work, landscaping and horticulture, greenhouse growing and landscape gardening. High mechanical ability and artistic interest. My greatest joy—to be with others. 4-year high school education. Graduate of landscape architecture course, American Landscape School. Prefer mild climate. Write Box 100, care of American Nurseryman.

### FOR SALE

Small nursery, approximately 15 acres, in the most prosperous part of Canada where building is going on like wildfire. On Canada's best highway, 2 miles from large town and near two of the largest cities; frontage on two streets.

Well-stocked nursery, new sales office and packing shed, good implements and 2 trucks, almost new. Large landscaping department. Ill health is reason for selling. Price \$33,000. New, modern home can be purchased separately. Write for particulars. Address Box 99, care of American Nurseryman.

### FOR SALE

50-acre, wholesale-retail, landscape nursery business in growing community in northwestern Ohio. Business is 35 years old and the largest in the area. Fifty thousand evergreens in the process of growth. Nursery fully equipped with greenhouses, lath houses, storage building, potting shed, office, 3 trucks, 4 tractors, sprayer, Rototiller and a six-room, modern residence. Does \$50,000 business annually and enjoys an excellent reputation. Write or phone.

THE GOODING CO.  
Citizens' Bldg.  
Lima, O.  
Telephone 49646

### FOR SALE

Modern nursery and greenhouse with 7½ acres valuable land adjoining new residential districts. Served by all city utilities. City of 12,000 in southeast Kansas. New 5-room home, greenhouse 56x85 ft., large office, storage and boiler building. Truck, tractor and all operating equipment. Ample growing stock of \$15,000 inventory. Well established. Real opportunity. Unlimited potential. \$28,000 complete. Write or call.

CRAIN REALTY CO.  
Fl. Scott, Kan.

### HELP WANTED

Experienced storage foreman. Must be thoroughly experienced in packing methods and have ability to supervise shipping department. Give complete details in first letter. All replies will be acknowledged.

SHERMAN NURSERY CO.  
Charles City, Ia.

### SITUATION WANTED

College graduate in horticulture desires permanent position with nursery in sales, growing or other. Excellent training and some experience in design, propagation, maintenance, sales, etc. Twenty-six, veteran, married, references. Write Box 103, care of American Nurseryman.

FOR SALE—Howell's Nursery. Wholesale growing and shipping business, specializing in production of azaleas, camellias, sasanqua and ornamentals. Over 30 years of successful operation. Name, good will, stock planted and in sheds valued at over \$100,000. Sale will include modern 6-room home and all modern equipment and machinery. Two trucks, 40x46-ft. retail store, greenhouses, etc. 112 acres with 1000-ft. frontage on main thoroughfare. Owner retiring. Any reasonable offer will be considered. Terms: Part cash to responsible party. Write or wire for complete details.

STAPLES-PAKE-GRIFFIN  
100 N. Royal St.  
Mobile, Ala.



# CLASSIFIED ADS

Rate: 35 cents per line, each insertion.

Minimum order, \$3.50

Instructions for the next issue must be received by Friday, September 17.

## AZALEAS

We have over 200,000 field-grown for fall and spring delivery. 6 ins. up to 3 ft. Hlnode-girl, Kaempferi, Fedora, Othello, Orange Beauty, Coral Bella, Maxwell, Salmon Beauty, Snow, Orange Queen, Ledifolia Alba, Amoena, 6 ins., 50c; 8 ins., 75c; 10 ins., \$1.00; 12 ins., \$1.25; 15 ins., \$1.50; 18 ins., \$2.50; 20 ins., \$3.50; 24 ins., \$5.00; 30 ins., \$6.00; 36 ins., \$7.50. Also a few Ghents in variety, 36 ins., \$7.50. Also Louiss Gable, Favorite, Beethoven, Johann Strauss, Rose Bud, Rose Greely, and Addy Wery. Write for prices. Buy northern-grown azaleas from Long Island's largest irrigated nursery.

BAIER LUSTGARTEN NURSERIES  
Middle Island, L. I., N. Y.  
Phone: Yaphank 4-3444

## AZALEAS

Hino-Crimson, the choice of all who see its deep crimson flowers. Thousands of other beautiful Kurumes, Glenn Dales, etc. Dense, bushy, well-budded—for landscaping and forcing. Book your orders now as they sell out early. Send for new price list of azaleas and large assortment of choice ornamentals.

THE TANKARD NURSERIES  
Exmore, Va.

Watch Your Results From  
American Nurseryman Classified Ads.

## BERRY PLANTS

**RASPBERRY PLANTS**  
Revolutionary new Durham off-season red raspberry plants. Bears mid-August to mid-October. Cut all canes back to the ground each fall; crop comes on the new growth each year. Eliminates winterkilling. Up to 3/16 in., \$50.00 per 1000; 3/16 in. to 1/4 in., \$75.00 per 1000; 1/4 in. and up, \$85.00 per 1000. Also Madawaska, red raspberry bearing two weeks earlier than Ladam, 3/16 in. and up, \$85.00 per 1000. September Everbearing Raspberry, the best two crops a year, 3/16 in. and up, \$100.00 per 1000. All F.O.B. shipping point. Write for free catalog.  
Strawberries—25 standard and everbearing varieties.

Rt. 3. WALTER K. MORRIS & SON  
Bradford, Mass.

**EVERBEARING STRAWBERRY PLANTS**  
—For 1955 season. Large, healthy plants, true to name. We can furnish any amount.  
Per 1000  
Streamliner ..... \$18.00  
Superfection ..... 16.00  
Mantadon ..... 16.00  
Gem ..... 14.00  
The plants are well cleaned and tied 25 to the bunch. Packed in sphagnum moss for shipping.

McNEAL BERRY NURSERY  
Hamilton, Mont.

A NEW BLUE SEEDLESS GRAPE, nearly as large as Concord, but much sweeter, harder, earlier, and heavier bearing than Concord. Just as vigorous and healthy. Ripens with Moores Early. Fifteen years under test. Who wants to buy this valuable grape with its sole propagating rights?

SCHWAB FRUIT FARM & NURSERY  
250 N. Fifth St. Mankato, Minn.

Classified Ads Offer Maximum  
Results at Minimum Cost.

## BULBS AND TUBERS

**DIRECT FROM THE GROWER  
QUALITY GUARANTEED**  
Our new wholesale price list for fall, 1954 offers a choice assortment of imported as well as domestic-grown bulbs and plants. You will find the best in the new as well as all popular kinds of:

Tulips	Hardy Lilies
Narcissus	Dutch Irises
Hyacinths	Muscars
Crocus	Hardy Phlox

And many other desirable items for forcing and outside planting.  
Ask for your copy today. It will be to your advantage.

A. M. GROOTENDORST  
P. O. Box 123 Benton Harbor, Mich.

**HEMEROCALLIS**  
Send for our new wholesale listing of 48 leading varieties.

RIEGL PLANT CO.  
Experiment, Ga.

## HOLLAND-GROWN BULBS

**DARWIN TULIPS**, first size, 11 to 12 cm., 5c ea. Jubilee, blue; Wm. Pitt, red; Pride of Haarlem, red; Yellow Giant, yellow; Princess Elizabeth, rose; Wm. Copland, lavender; Queen of Night, blue-black; Zwanzburg, white; Bartigon, dark red; Clara Butt, pink; Dido, salmon-orange; Kansas, white with yellow center.

**PARROT TULIPS**, 7 1/2 c ea.  
Blue Parrot, blue; Fantasy, rose inside salmon; Orange Favorite, orange; Sunshine, bright yellow; Therese, fiery rose-scarlet, large-flowering.

**REMBRANDT TULIPS**, 7 1/2 c ea.  
Cordell Hull, variegated, white and red.  
**COTTAGE TULIPS**, 7 1/2 c ea.  
Marjorie Bowen, pink and salmon; G. W. Leak, crimson and orange.

**FOSTER TULIPS**, 10c ea.  
Red Emperor, large brilliant scarlet.

**HYACINTHS**, bedding size, 15 to 16 cm., 10c ea. Pink Pearl, deep rose; La Victoire, brilliant, carmine-red; L'Innocence, pure white; Bismarck, sky-blue; King of the Blues, deep blue; City of Haarlem, golden-yellow.

**CROCUS**, blooming size, 7 to 8 cm., 4c ea. King of the Blues, King of the White, Golden Yellow and King of the Striped, white and blue.

**MUSCARI** (Grape Hyacinth), 2c ea.

**SCILLA**, champ, mixed, 2 1/2 c ea.

**SNOWDROPS**, 8 to 9 cm., 4c ea.

**GIANT YELLOW TRUMPET DAFFODILS**, 6 1/2 c ea. King Alfred, Solaris, Golden Harvest and Music Hall.

**DUTCH IRIS**, 8 to 9 cm., 5c ea.

Golden Harvest, White Excelsior and Wedgwood.

**BENTON COUNTY NURSERY CO., INC.**  
Dept. 6 Rogers, Ark.

## NEW HEMEROCALLIS (DAY LILIES)

Heavy field divisions.	Per doz.	Per 100
Croesus, rich amber-yellow.....	\$5.75	\$30.00
Crusader, Indian red.....	5.75	30.00
Dido, clear, soft apricot.....	5.75	30.00
Indian Sunset, soft chestnut-brown.....	5.50	25.00
J. A. Crawford, rich apricot-yellow.....	4.75	20.00
Linda, pale amber-yellow.....	5.50	25.00
Magnificence, Chinese coral.....	5.75	30.00
Mongolia, bronzy Chinese coral.....	5.50	25.00
Morocco Beauty, velvety maroon-chestnut.....	4.75	20.00
Rajah, light burnt orange.....	5.50	25.00
Stromboli, old gold.....	5.50	25.00
Summer Pride, ruby-red, golden throat.....	5.50	25.00
Tasmania, Chinese coral, golden-yellow center.....	4.75	20.00
The Gem, deep orange-yellow.....	4.75	20.00

25 or more plants of one variety at 100 rate.

THE WAYSIDE GARDENS CO.  
Mentor, O.

## DAY LILIES

	Per 10	Per 100
Autumn Red, an open, velvety red.....	\$ 3.50	
Canary, satiny canary-yellow. A much-improved, lighter Hyperion.....	15.00	
Matador, a bright, rich red.....	6.00	
Moonray, pale yellow with halo of Pompeian red, recurved petals.....	5.00	
Peachblow, very fine salmon-peach.....	3.50	
Persian Princess, deep red to purple. A choice variety.....	3.50	
Stalwart, rich blooming tawny-orange Starlight, tall, early-blooming with large flowers of the palest yellow.....	5.00	
Tallman, true Tallman-pink.....	6.00	
Theron, lovely port-wine. One of the finest.....	3.50	

SUNNY BORDER NURSERIES  
Kensington, Conn.

## DAY LILIES

	Per 10	Per 100
Fulva Maculata, copper-orange.....	\$2.50	\$15.00
George Yeld, bronzy-apricot.....	2.50	15.00
Hyperion, large yellow.....	3.00	18.00
J. T. Russell, yellow and crimson.....	2.50	15.00
Linda, yellow and rose.....	2.50	15.00
Mayor Starszynski, bronze-rose.....	5.00	
Seven Seas, rosy-brown and yellow.....	2.50	15.00
Tejas, bright red, yellow throat.....	2.50	15.00

5 at 10 rate; 25 at the 100 rate.

GRUNDY'S GARDENS  
Anton, Tex.

**CHOICE COMMERCIAL FLOWER BULBS**  
For growing or resale. Write for current list now or let us know your wants.

REGAL BULB CO.  
Holland, Mich.

## DELPHINIUMS

### DELPHINIUMS

	Each Per 100	Each Per 250 or more
Pacific Giant Hybrids, named varieties or mixed, No. 1 transplants, choice.....	\$0.12	\$0.11
No. 2, row crop, choice.....	.07	.06
Wrexham Hybrids, mixed.....	.06	.05
Gold Medal Hybrids, mixed.....	.06	.05
Lamartine, dark blue, white.....	.06	.05
Belladonna, light blue.....	.05	.04
Bellamosum, dark blue.....	.05	.04

All strong, healthy, field-grown stock, packed right for safe delivery. Hardy plant list gladly sent on request.

KAZOO-GARDENS NURSERY  
206 Richard Ave.  
Kalamazoo 33, Mich.

## EVERGREENS

FIELD TRANSPLANTS—FALL, 1954	Each
2-YR.	
Chamaecyparis plumosa, 6 to 12 ins.....	\$0.20
12 to 18 ins.....	.25
Chamaecyparis plumosa aurea, 6 to 12 ins.....	.20
Euonymus coloratus, 12 to 18 ins.....	.25
Euonymus vegetus, 12 to 15 ins.....	.22
Juniper, Andorra, 6 to 12 ins.....	.22
Juniper, Blue Hetz, 6 to 12 ins.....	.22
12 to 15 ins.....	.22
Juniper, Irish, 6 to 12 ins.....	.22
12 to 15 ins.....	.27
Juniper, Golden Pfitzer, 6 to 12 ins.....	.22
Taxus adamsi, 6 to 12 ins.....	.22
Taxus andersoni, 6 to 12 ins.....	.22
Taxus browni, 6 to 12 ins.....	.22
Taxus capitata, cuttings, 6 to 12 ins.....	.22
Taxus cuspidata, 4 to 6 ins.....	.18
6 to 12 ins.....	.18
Taxus hicksi, 4 to 8 ins.....	.18
8 to 12 ins.....	.22
Taxus hilli pyramidalis, 6 to 12 ins.....	.25
Taxus hunnwelliana, 6 to 12 ins.....	.22
Taxus mooni, 6 to 12 ins.....	.25
Thuja elegantissima, 6 to 12 ins.....	.20
Th. occidentalis compacta, 6 to 12 ins.....	.20
Th. occ. douglasii aurea, 6 to 12 ins.....	.20
Th. occ. frenchi, 6 to 12 ins.....	.20
Th. occ. globosa compacta, 6 to 12 ins.....	.20
Th. occ. pyramidalis, 6 to 12 ins.....	.20
Th. occ. wareana, 6 to 12 ins.....	.20
Th. occ. woodwardi, 6 to 12 ins.....	.20

3-YR.	Each
Juniper, Andorra, 12 to 15 ins.....	.35
Juniper, Irish, 12 to 18 ins.....	.35
18 to 24 ins.....	.45
Juniper, Pfitzer, 6 to 12 ins.....	.30
18 to 24 ins.....	.40
Juniper, Tamarix, 12 to 18 ins.....	.25
Th. elegantissima, 6 to 12 ins.....	.25
12 to 18 ins.....	.30
Th. occ. elwangeriana, 6 to 12 ins.....	.20
Th. occ. frenchi, 6 to 12 ins.....	.25
12 to 18 ins.....	.25
Th. occ. nigra, 6 to 12 ins.....	.25
12 to 18 ins.....	.30
18 to 24 ins.....	.35
Th. occ. vernaeanae, 6 to 12 ins.....	.20
12 to 18 ins.....	.25
Th. occ. wareana, 6 to 12 ins.....	.30
Th. occ. woodwardi, 6 to 12 ins.....	.25

Japanese Beetle Certificate  
CRYSTAL LAKE EVERGREEN NURSERY  
R. R. 3 Slippery Rock, Pa.

## NURSERY STOCK

Extra-heavy and Ready for the Field	Per 100
Taxus browni, 3-yr., TT, 10 to 12 ins.....	\$50.00
Taxus cuspidata, 3-yr., TT, 10 to 12 ins.....	45.00
Taxus cuspidata capitata, 3-yr., TT, 10 to 12 ins.....	55.00
Taxus media ovata, 3-yr., TT, 10 to 12 ins.....	35.00
1-YR. FIELD BEDS	
Euonymus vegetus, 2-yr., T, 10 to 12 ins.....	25.00
Euonymus vegetus, 3-yr., TT, 12 to 15 ins.....	35.00
Ribes alpinum, 1-yr., T, 8 to 10 ins.....	20.00
Taxus browni, T, 6 to 10 ins.....	35.00
Taxus cuspidata, T, 6 to 10 ins.....	30.00
Taxus cuspidata capitata, T, 8 to 10 ins.....	35.00
Taxus cuspidata nigra, T, 8 to 10 ins.....	30.00
Taxus hicksi, T, 6 to 10 ins.....	30.00

FRED P. STROHL  
1404 N. Anthony Blvd. Fort Wayne, Ind.

Liners grown in outside beds for 1, 2 and 3 years as specified.

Each	Per 100	Per 1000
<b>Azaleas:</b>		
Amoena, Claret, Ethelwyn, Flame, Galety, Greeting, Herbert, Hinoedgiri, Hino-Crimson, Hino-mayo, and Salmon Beauty, 1-yr. ....	\$0.25	
Buxus arborescens, 2-yr. ....	.20	
Buxus sempervirens, 1-yr. ....	.15	
Chamaecyparis filifera, 2-yr. ....	.20	
Chamaecyparis obtusa, 2-yr. ....	.20	
Chamaecyparis pisifera, 2-yr. ....	.20	
Chamaecyparis plumosa aurea, 2-yr. ....	.20	
Chamaecyparis plumosa, 2-yr. ....	.20	
Cotoneaster salicifolia, 1-yr. ....	.20	
Ilex aquifolium, 1-yr. ....	.50	
Ilex aquifolium pyramidalis, 1-yr. ....	.50	
Ilex cornuta (male), 1-yr. ....	.50	
Ilex cornuta (female), 1-yr. ....	.50	
Ilex cornuta burfordii, 1-yr. ....	.50	
Ilex crenata, 1-yr. ....	.15	
Ilex crenata, 2-yr. ....	.20	
Ilex convexa, 1-yr. ....	.15	
Ilex convexa, 2-yr. ....	.20	
Ilex rotundifolia, 1-yr. ....	.15	
Ilex glabra, 1-yr. ....	.15	
Ilex opaca (female), 1-yr. ....	.50	
Ilex opaca Arden, 1-yr. ....	.50	
Juniper, Armstrong, 2-yr. ....	.35	
Juniper, Hetz, 2-yr. ....	.30	
Juniper, Pfitzer, 2-yr. ....	.35	
Juniper, Pfitzer, 3-yr. ....	.40	
Ligustrum lucidum repandens, 1-yr. ....	.30	
Ligustrum lucidum erectum, 1-yr. ....	.30	
Ligustrum lucidum erectum, 2-yr. ....	.35	
Osmanthus aquifolium, 1-yr. ....	.35	
Picea pungens glauca, 5-yr. T. ....	.40	
Prunus laurocerasus schlipkaensis, 1-yr. ....	.40	
Pyracantha occidentalis lalandi, 1-yr. ....	.30	
Taxus baccata aurea, 2-yr. ....	.25	
Taxus brownii, 2-yr. ....	.20	
Taxus cuspidata, 2-yr. ....	.25	
Taxus hatfieldi, 2-yr. ....	.25	
Taxus hispida, 2-yr. ....	.20	
Taxus, Vermeulen, 2-yr. ....	.20	
Thuja occidentalis globosa, 2-yr. ....	.20	
Thuja occidentalis nigra, 2-yr. ....	.25	
Thuja occidentalis pyramidalis, 2-yr. ....	.20	
Thuja canadensis, 2-yr. ....	.30	
Minimum 25 of a kind, please. Packing free. Write for our complete list of liners and finished stock.		

DEL-MR-VA NURSERIES  
Lincoln, Del.

**FALL OFFERING OF  
EVERGREEN SEEDLINGS**  
Cash, please!

Per	100	1000
Alpine Fir, 3-yr., 4 to 6 ins. ....	\$ 5.00	....
American Arborvitae, 2-yr., 2 to 4 ins. ....	3.00	\$20.00
3-yr., 4 to 6 ins. ....	4.00	30.00
4-yr., 6 to 8 ins. ....	5.00	40.00
American Larch, 3-yr., 12 to 18 ins. ....	5.00	40.00
Austrian Pine, 2-yr., 2 to 4 ins. ....	3.00	20.00
Banks Pine, 2-yr., 2 to 4 ins. ....	3.00	20.00
Black Hills Spruce, 2-yr., 1 to 2 ins. ....	2.50	15.00
Colorado Blue Spruce, 2-yr., 1 to 2 ins. ....	2.50	15.00
2-yr., 2 to 4 ins. ....	4.00	30.00
3-yr., 4 to 6 ins. ....	5.00	40.00
Concolor Fir, 2-yr., 2 to 4 ins. ....	5.00	....
3-yr., 4 to 6 ins. ....	10.00	....
Douglas Fir, Blue, 2-yr., 2 to 4 ins. ....	3.50	25.00
3-yr., 4 to 6 ins. ....	4.50	35.00
Engelmann Spruce, Blue, 2-yr., 1 to 2 ins. ....	2.50	15.00
European Larch, 3-yr., 6 to 8 ins. ....	4.00	30.00
3-yr., 12 to 18 ins. ....	5.00	40.00
Juniperus scopulorum, 2-yr., 2 to 4 ins. ....	4.00	....
Juniperus virginiana, 2-yr., 2 to 4 ins. ....	4.00	....
Mugho Pine (Dwarf), 2-yr., 2 to 4 ins. ....	3.00	20.00
3-yr., 4 to 6 ins. ....	4.00	30.00
Norway Spruce, 3-yr., 4 to 8 ins. ....	4.00	30.00
Ponderosa Pine, 2-yr., 2 to 4 ins. ....	2.50	15.00
Red Pine, 1-yr., 1 to 2 ins. ....	2.50	15.00
2-yr., 2 to 4 ins. ....	3.00	20.00
Scotch Pine, 2-yr., 2 to 4 ins. ....	3.00	20.00

C. WILSON'S NURSERY  
Pembine, Wis.

**EVERGREENS R&B**

Each	Per 100	Per 1000
900 American A. V., 2 to 3 ft. ....	\$2.00	
255 American A. V., 3 to 4 ft. ....	3.00	
200 American A. V., 4 to 4½ ft. heavy, 4.00		
150 Andorra Juniper, 15 to 18 ins. ....	1.50	
1100 Andorra Juniper, 18 to 24 ins. ....	2.00	
60 Andorra Juniper, 3 to 4 ft. ....	3.00	
300 Blue Hetz Juniper, 18 to 24 ins. ....	2.00	
1300 Blue Hetz Juniper, 2 to 2½ ft. ....	2.50	
365 Blue Hetz Juniper, 2½ to 3 ft. ....	3.50	
80 Irish Juniper, 2½ to 3 ft. ....	2.25	
100 Irish Juniper, 3 to 4 ft. heavy ....	2.75	
350 Pfitzer Juniper, 18 to 24 ins. ....	2.25	
40 Pfitzer Juniper, 4 ft. heavy ....	4.00	
1400 Pyramidal A. V., 2 to 3 ft. ....	2.25	
900 Pyramidal A. V., 3 to 4 ft. ....	2.75	
1100 Woodward Globe A. V., 1 to 1½ ft. ....	1.50	
650 Woodward Globe A. V., 15 to 18 ins. ....	2.00	

All evergreens R&B at list prices. Properly sheared. Visitors invited, but call or write in advance, so we will be here. Phone: 1361X.

WHERRY'S NURSERIES, St. Marys, Va. Va.

2-YR. EVERGREEN SEEDLINGS	Per 100	Per 1000
Austrian Pine (Cert. Alps), 4 to 9 ins. ....	\$ 7.25	\$36.25
Colorado Blue Spruce, seed from blue trees, 3 to 7 ins. ....	7.95	37.50
Douglas Fir, 5 to 10 ins. ....	8.75	41.50
Japanese Black Pine, 6 to 12 ins. ....	7.75	36.75
Scotch Pine (Cert. Austrian), 6 to 12 ins. ....	7.75	36.50
Scotch Pine (West Europe), 4 to 9 ins. ....	7.25	36.25

3-YR. EVERGREEN SEEDLINGS	Per 100	Per 1000
Colorado Blue Spruce, seed from blue trees, 6 to 12 ins. ....	12.75	61.50
Douglas Fir, 6 to 12 ins. ....	10.75	51.00
Mugho Pine (Cert. Tyrolean), 5 to 8 ins. ....	10.75	51.50
Norway Spruce, fast-growing strain, 6 to 12 ins. ....	9.00	46.50
Scotch Pine (Cert. Riga), 12 to 20 ins. ....	10.75	46.75

4-YR. EVERGREEN SEEDLINGS	Per 100	Per 1000
Balsam Fir, 4 to 7 ins. ....	8.75	41.00
Black Hills Spruce, 6 to 14 ins. ....	15.00	75.00
Colorado Blue Spruce, transplants, seed from blue trees, 2 and 2-yr., 6 to 9 ins. ....	20.00	....

We pay parcel post up to 4th zone terms. Remittance with order.

**NEUNER'S EVERGREEN NURSERY**

365 Eichler Rd., Rt. 856  
Emaworth, Pittsburgh 2, Pa.

**EVERGREEN LINERS AND CUTTINGS**

**POT-GROWN AND TRANSPLANTS**

Each—Per 100 Per 1000

Arborvitae, American Dark Green ....	\$0.20	\$0.18
Arborvitae, Globe Woodward ....	.20	.18
Euonymus alatus compactus, 2-yr. pots ....	.18	.16
Juniperus chinensis pfitzeriana, 1-yr. pots ....	.24	.22

**HEAVY-ROOTED CUTTINGS**

From flats, rooted outside in lath house.

Delivery now.

Euonymus alatus compactus ....	.09	.08
Euonymus erectus ....	.07	.06
Euonymus patens ....	.07	.06
Euonymus vegetus ....	.07	.06
Juniper, Swedish ....	.10	.09
Juniperus chinensis pfitzeriana, 8 ins. ....	.13	.12
Juniperus glauca hetz, 11 ins. ....	.11	.10
Taxus cuspidata ....	.10	.09
Taxus intermedia ....	.11	.10
Taxus media, spreading ....	.11	.10

Terms: 2½ discount and free packing for cash with order. Our stock guaranteed 100% satisfactory or return within 5 days for full refund, plus full shipping charges paid.

250 plants at 1000 rate.

MIAMI NURSERY CO.  
Tipp City, O.

**EVERGREENS**

**2-YR. SEEDLINGS**

Per 100 Per 1000

Austrian Pine, 6 to 10 ins. ....	\$8.00	\$40.00
Colorado Blue Spruce, seed from selected natives, 3 to 6 ins. ....	7.00	35.00
2 to 5 ins. ....	5.00	25.00
Colorado Silver Juniper, 7 to 12 ins. ....	8.00	40.00
Douglas Fir, 5 to 9 ins. ....	6.00	30.00
Scotch Pine, 7 to 11 ins. ....	7.00	35.00

**3-YR. SEEDLINGS**

Ponderosa Pine, 8 to 14 ins. .... 7.00 35.00

5 to 8 ins. .... 5.00 25.00

**TRANSPLANTS 2-2**

Douglas Fir, 8 to 16 ins. .... 9.00 45.00

8 to 12 ins. .... 8.00 40.00

Prices F.O.B. Denver. Remittance with order.

**SEEDS**

Colorado native evergreens. New crop. Not yet collected. Order now. Some scarce. Write the collector.

**WESTERN EVERGREENS**

3260 Field St. Wheat Ridge, Colo.

**JAPANESE RED MAPLE SEEDLINGS**

(Acer Palmatum Atropurpureum)

100% Well hardened, grown in open beds. Ready for 6-in. pots or open field planting.

3-yr., XX, well-branched, 8 to 10 ins., 60¢ ea.

3-yr., XX, well-branched, 10 to 12 ins., 70¢ ea.

Other sizes available.

Shipped bare root, packed in sphagnum. Ready for shipment late October on 20% deposit. Will reserve orders.

These are not ordinary seedlings, but a carefully selected strain of true Red Maples. If you have never tried our Maples try a small order and you will be convinced of quality. Hardier than grafts—grown much faster.

Specializing in maple seedlings.

**HUBBS NURSERIES**

Rt. 130 Riverton, N. J.

**ACER FAASSENS BLACK**

1000, 4 to 5 ft. .... \$1,000.00 per 1000

1000, 5 to 6 ft. .... 1,250.00 per 1000

F.O.B. New York. Fall or spring delivery. Request for catalog.

**HOLLAND NURSERY PRODUCTS**

P. O. Box 339, Madison Square Station, New York 10, N. Y.

**SEEDLINGS AND TRANSPLANTS**

2-Yr. Seedlings	Per 100	Per 1000
Blue Douglas Fir, 3 to 6 ins. ....	\$ 4.00	\$ 25.00
Concolor Fir, 4 to 6 ins. ....	5.00	....
Concolor Fir, 2 to 4 ins. ....	6.00	30.00
Scotch Pine, 4 to 8 ins. ....	4.00	20.00
Colorado Blue Spruce, 2 to 5 ins. ....	4.00	25.00
3-Yr. Seedlings		
American Arborvitae, 4 to 8 ins. ....	5.00	30.00
Austrian Pine, 10 to 16 ins. ....	6.00	35.00
Scotch Pine, 10 to 18 ins. ....	6.00	35.00
Scotch Pine (Riga), 14 to 20 ins. ....	8.00	40.00
Colorado Blue Spruce, 3 to 6 ins. ....	5.00	30.00
Norway Spruce, 4 to 8 ins. ....	4.00	30.00
4-Yr. Transplants		
Norway Spruce, 8 to 14 ins. ....	12.00	100.00

Cash with order. Packing free.

All prices F.O.B. Angola.

**ARTHUR CASH NURSERY**

Lake Shore Rd. Angola, N. Y.

**TAXUS**

Excellent quality. For full shipment. Car and trailer loads only, with Japanese Beetle Certificate.

Each

**Taxus capitata (Upright Yew)**

3 to 3½ ft. .... \$6.25

3½ to 4 ft. .... 7.50

4 to 4½ ft. .... 9.00

Larger sizes up to 9 ft.

**Taxus cuspidata (Spreading Yew)**

1½ to 2 ft. .... 3.85

2 to 2½ ft. .... 4.85

Larger sizes up to 4½ ft.

**Taxus hispida (Hicks Yew)**

1½ to 2 ft. .... 3.25

2 to 2½ ft. .... 4.00

2½ to 3 ft. .... 5.00

Larger sizes up to 5 ft.

Also Taxus hatfieldi, T. intermedia, T. Vermeulen, and others. Write for complete list.

**BULK'S NURSERIES**

Babylon, L. I., N. Y.

**LINING-OUT STOCK**

Each Each

Ilex crenata, field beds, per per

3-yr., T. 6 to 8 ins. .... \$0.30 \$0.25

2-yr., S. 4 to 6 ins. .... .05

1-yr., S. 2 to 4 ins. .... .03

Ilex convexa, field beds, 3-yr., T. 6 to 9 ins. .... .35 .30

Juniperus pfitzeriana glauca, field beds, 3-yr., T. 8 to 10 ins. .... .35 .32

Taxus cuspidata, field beds, 3-yr., T. 8 to 10 ins. .... .35 .32

2-yr., T. 6 to 8 ins. .... .25 .25

Taxus hispida, field beds, T. 2-yr. .... .25 .25

Cash with order. Free packing.

**BROOKFIELD GARDENS**

U. S. Rt. 46 Delaware, N. J.

**POT-GROWN EVERGREEN LINERS**

Per 100 Per 1000

Armstrong Pfitzer Juniper, \$23.00 \$135.00

Blue Pfitzer Juniper .... 25.00 200.00

Hetz Juniper .... 22.00 175.00

Pyramidal Arborvitae .... 20.00 165.00

Woodward Globe Arborvitae, 20.00 165.00

Write for complete list of potted and field-grown liners and balled and burlapped evergreens.

Terms: Cash with order. Free packing.

200 plants of one variety at 1000 rate.

Not less than 50 of a variety. Orders for spring held for one fourth deposit.

**VOGE NURSERY**

New Lebanon, O.

**PFTZER JUNIPERS**

Excellent quality.

Each per 100

2 to 2½ ft. .... \$2.50 \$2.50

2½ to 3 ft. .... 3.20 2.90

**YEW—Excellent quality.**

Browns, 2 to 2½ ft. .... 6.00 5.50

Hatfield, 1½ to 2 ft. .... 6.00 4.50

**CANADIAN HEMLOCK**

2½ to 3½ ft. .... 4.50 4.00

**CHINESE JUNIPERS (second)**

3½ to 4 ft. .... 2.50 2.00

4½ to 5½ ft. .... 3.50 2.50

All stock XXX R&B.

**ROSEBUD NURSERIES**

R

## EVERGREENS—Continued

CANADA HEMLOCK		
	Per 100	Per 1000
4 to 8 ins., transplants, 2-2	\$15.00	\$126.00
8 to 12 ins., transplants, 2-2	20.00	180.00
12 to 15 ins., transplants, 2-2	35.00	.....
6 to 9 ins., collected seedlings	4.00	20.00
9 to 12 ins., collected seedlings	6.00	45.00
12 to 18 ins., collected seedlings	8.00	65.00
50 at the 100 rate, 500 at the 1000 rate		

Send for complete list.

ISAAC LANGLEY WILLIAMS  
P. O. Box AN Exeter, N. H.

IRISH YEW		
	Per 100	Per 1000
Taxus hibernica fastigiata, your choice of green or golden		
4 to 6 ins., from beds, TT	20c ea.	
6 to 8 ins.	30c ea.	
8 to 12 ins., TTT	40c ea.	
Minimum order, 25 plants of a size and variety. Lightweight, careful packing, free. Cash with order. If mail shipping desired, add 10 per cent for postage. Immediate shipment.		

RICHARD P. RESSEL NURSERIES  
Mullino, Ore.

HEAVY POTTED TAXUS LINERS		
	Per 100	Per 1000
From 3 1/2 x 4-in. rose pots: potted spring of 1953; carried under lath with overhead irrigation		
6 to 8 ins.	\$30.00	
8 to 10 ins.	38.00	

3320 Taxus cuspidata	
2680 Taxus media	
1380 Taxus hicksii	
Packing at \$2.00 per 100.	

THE LEICHHARDT HILLVIEW NURSERY  
Nashville Rd. Bowling Green, Ky.

LINING-OUT STOCK		
	Per 100	Per 1000
Arborvitae, Green	\$0.27	.25
Taxus cuspidata	.27	.25
1-YR. BEDS		
Taxus cuspidata	.17	.15
Taxus hicksii	.17	.15
50 of one variety at 100 rate. 300 of a variety at 1000 rate.		

DRAKE'S NURSERIES  
G-4342 Branch Rd. Flint 6, Mich.

ABELIA GRANDIFLORA (Glossy Abelia)		
	Per 10	Per 100
6 to 12 ins., C.	\$ 7.50	
12 to 18 ins., C.	10.00	
12 to 18 ins., Br., T.	\$2.00	15.00
18 to 24 ins., Br., T.	3.00	25.00
2 to 3 ft., Br., T.	4.00	35.00

Write for 24 page catalog.  
LOWELL H. McGEE NURSERIES  
Box 341 McMinnville, Tenn. Phone: 3351

Canada Hemlock		
	Each	
10 ins., TT, heavy	\$ 0.25	
12 to 18 ins., heavy	.50	
3 ft., B&B, heavy	3.00	
4 ft.	4.00	
6 to 7 ft.	7.50	
Carolina Hemlock		10.00

BAIER LUSTGARTEN NURSERIES  
Middle Island, L. I., N. Y.  
Phone: Yaphank 4-3444

EUONYMUS COLORATUS, 2-yr., field-grown, from pots, under irrigation and clipped, 12 to 15-in. spread, \$38.00 per 100; 12 to 15-in. spread, \$355.00 per 1000.		
EUONYMUS MINIMUS, staked upright,		
	Each	

10 to 12 ins., B&B	\$1.65
12 to 15 ins., B&B	1.85
15 to 18 ins., B&B	2.25

WHITHAM NURSERIES  
Agency, Ia.

50,000 TAXUS		
	Per 100	Per 1000
2 1/2-pots, \$180.00 per 1000. T. hicksii, T. capitata, T. cuspidata, T. intermedia. Also same varieties, 2-yr. field-grown, 50c ea.		

BAIER LUSTGARTEN NURSERIES  
Middle Island, L. I., N. Y.  
Phone: Yaphank 4-3444

EVERGREENS		
	Per 100	Per 1000
Pfitzer Junipers, 18 to 24 ins., \$75.00 per 100. 24 to 30 ins., \$100.00 per 100. Priced to move 3,000.		

A. J. BUTTERFIELD GREENHOUSES  
Farmington, Mo.

COLORADO SPRUCE, B&B, 2 to 5 ft.		
	Per 100	Per 1000
Mugho Pine, 12 to 15 ins., 15 to 18 ins.; Douglas Fir, 5 to 10 ft. Also lining-out stock.		

THE PEQUOT NURSERIES  
Brainerd, Minn.

EVERGREENS		
	Per 100	Per 1000
300 Pfitzer Juniper, 3 1/2 to 4 1/2 ins.		
300 Hetz Juniper, 30 to 36 ins.		
Three times transplanted.		

HOLM'S LANDSCAPE NURSERY  
Box 113-A Homewood, Ill.

AMERICAN ARBORVITAE, sheared specimens, 8 to 12 ft., \$1.00 per ft.		
AMERICAN FORESTRY SERVICE CO.		
Lancaster Pike and Indian Creek Rd.		
Philadelphia 31, Pa.		

KALMIA LATIFOLIA seedlings. Nursery grown or collected. R. K. POHL, Box 990, White Plains, N. Y.

ROOTED CUTTINGS—Taxus cuspidata, T. cuspidata capitata, T. hicksii, Pfitzer Juniper, Globe Arborvitae, \$8.00 per 100; \$75.00 per 1000.

TRANSPLANTS—Azalea amoena, Pieris japonica, 6 to 8 ins., 15c; 10 ins. and up, 25c.  
WESTWOOD GARDENS  
Caldwell, N. J.JAPANESE BLACK PINE  
4 to 5 ft., about 350.  
PARMENTIER'S ROSES  
Grady St., Bayport, L. I., N. Y.  
Phone: 8-0811 or 8-2331PIERIS JAPONICA (Andromeda)  
Per 100 Per 1000  
2 to 3 ins., T. .... \$8.00 \$75.00  
PLANE VIEW NURSERY  
Newport, R. I.Quick—Convenient—Cheap!  
Selling through the Classified Ads of the American Nurseryman.

## GROUND COVERS

GROUND COVERS		
	Per 100	Per 1000
Ajuga repleta, field-grown	\$12.50	\$110.00
English Ivy, field-grown	12.50	110.00
Euonymus radicans coloratus, 2-yr., field-grown	15.00	135.00
rooted cuttings	6.00	55.00
Pachysandra, field-grown, assorted	6.25	55.00
2-yr.	7.50	65.00
Truly fine stock. F.O.B.		

MOHLE MEADOWLAND NURSERY  
Great Meadows, N. J.VINCA MINOR, MYRTLE PERIWINKLE  
Fresh dug, individually made up, 15 to 20-cane clumps, \$50.00 per 1000. 30-cane clumps, \$90.00 per 1000.  
Pachysandra, strong, 1-yr., rooted, \$55.00 per 1000.  
Hall's Honeysuckle, branched, \$45.00 per 1000.Boulevard Dr. H. C. WAUGH  
Belpre, O.PACHYSANDRA TERMINALIS—strong-rooted cuttings, \$3.75 per 100; \$3.50 per 1000; \$32.50 for any order of 5000 or more.  
Prompt shipment. Beetle zone only.  
DUNWOODIE NURSERIES  
6 Smart Ave. Yonkers, N. Y.  
Phone: Yonkers 5-1473PACHYSANDRA ROOTED CUTTINGS  
\$ 3.75 per 100  
35.00 per 1000  
WESTWOOD GARDENS  
Caldwell, N. J.PACHYSANDRA TERMINALIS  
Strong, 1-yr., field-grown, \$65.00 per 1000.  
HILLCREST GREENHOUSES, Franklin, Pa.More customers for you!  
Over 8,000 subscribers, all active buyers, see your ad in the American Nurseryman.

## HARDY PLANTS

Transplanted, field-grown stock, full root, not divided.  
Each  
Anchusa myosotidiflora, heavy, \$0.12  
Aquilegia, Mrs. Scott Elliot's Hybrid, 2-yr., ..... 10  
Crimson Star, 2-yr., ..... 10  
Armeria, Glory of Holland, 2-yr., ..... 15  
Artemisia, Silver King, 1-yr., No. 1, ..... 15  
Bleeding Hearts (Dicentra spectabilis), 3 to 5-eye, clumps, ..... 30  
5 to 8-eye, clumps, ..... 40  
Carnations, Grenadin, 5 colors or mixed, 1-yr., ..... 08  
Campanula medium calycanthema, Cup-and-Saucer, 1-yr., ..... 08  
Dianthus deltoideus, pink, ..... 08  
Galeata, mixed, 1-yr., ..... 08  
Digitalis, Giant Shirley Hybrid, ..... 08  
Gaillardia, Dazzler, 1-yr., ..... 08  
Feverfew, double white, 1-yr., ..... 08  
Gaillardia, Dazzler, 1-yr., ..... 08  
Pyrethrum, Robinson, red or mixed, ..... 08  
Platycodon, blue, 2-yr., ..... 10  
Lavandula vera, 1-yr., ..... 10  
Phlox subulata, Emerald Cushion, Pink, Blue Hills, Atropurpurea, red; Alba, white, full clumps, No. 1, ..... 15  
Full clumps, No. 2, ..... 10  
Phlox, tall varieties (10), write for special list.  
Delphiniums and Pansies, see ad in this issue under same.  
Statice latifolia, 2-yr., ..... 15  
Scabiosa, Isaac House Hybrids, 2-yr., ..... 15  
Sedum spectabile, Brilliant, 1-yr., No. 1, ..... 15  
1-yr., No. 2, ..... 10  
Tritoma, 1-yr., ..... 15  
Packed right for safe delivery.  
KAZOO-GARDENS NURSERY  
206 Richard Ave.  
Kalamazoo 33, Mich.

Pansies, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S PANSY FARM & NURSERY  
Bristol, Pa.

## HARDY PLANTS

All good strong, field-grown liners.

Group A:  
Anchusa, dropmore; Carnation, Grenadin, by color or mixed; Campanula, blue and rose; Columbine, by color or mixed; Dianthus, Galety, mixed; Echinop. violet; Gypsophila pacifica, pink; Oldhamia; Iberis sempervirens; Iris japonica, mixed; Iris kaempferi; Liatris, September Glory; Lupinus, Russell Hybrid; Pyrethrum; Rudbeckia; Rudbeckia orange-yellow; Statice latifolia; Sweet Pea perennial, mixed; Verbascum phoeniceum; Veronica spicata; Yucca filamentosa; Hibiscus, Marvela, mixed.  
Prices on all above listed items, Group A: \$4.00 per 100, \$30.00 per 1000. Combination order of 5000 or more, \$27.50 per 1000.GROUP B:  
Arabis, pink; Alyssum, Basket-of-Gold; Linum perenne, blue; Bellis perennis, by color or mixed; Campanula, Cup-and-Saucer, color or mixed; Coreopsis, Sunburst; Feverfew, double white; Gaillardia, Dazzler, Burgundy and Portola; Digitalis, Giant Shirley Hybrid; Dianthus, Spring Beauty; Barbatus, tall and dwarf; Hollyhocks, Chamois, by color or mixed; Gypsophila, paniculata, white; Shasta Daisy, Diener, Alaska, Conqueror, Myosotis and Victoria, blue; Tritoma, hybrids from seeds.Prices on the above listed items, Group B: \$3.00 per 100, \$29.00 per 1000. Combination order of 5000 or more, \$17.50 per 1000. 25 plants at 100 rate, carefully packed. Write for complete list on hardy plants, etc.  
KAZOO-GARDENS NURSERY  
206 Richard Ave.  
Kalamazoo 33, Mich.

## ORIENTAL POPPIES

Heavy field-grown stock.  
Good spring rains have helped produce fine plants.  
Immediate delivery.  
Per doz. Per 100  
1500 Harris White ..... \$6.00 \$35.00  
1000 Cerise Beauty ..... 5.75 30.00  
2000 Cowichan ..... 6.00 35.00  
500 Crimson Pompadour ..... 5.50 30.00  
500 Curtis Giant Flame ..... 5.75 30.00  
500 Curtis Giant Flesh Pink ..... 5.75 30.00  
250 Curtis Salmon-pink ..... 5.50 25.00  
1500 Helen Elizabeth ..... 4.75 20.00  
500 Henri Cayeux Improved ..... 5.50 25.00  
750 Indian Chief ..... 1.00 5.00  
2000 Mrs. Perry ..... 4.75 20.00  
500 Salmon Glow (double) ..... 4.75 20.00  
Mixed ..... 4.25 18.00  
Below are offered our new giant flowered hybrids, developed from the above.2000 Salome, beautiful French rose ..... 6.00 35.00  
1000 Sonate, clear, deep rose-pink ..... 6.00 35.00  
2000 Souvenir, vivid poppy-red ..... 6.00 35.00  
500 Sultana, watermelon-pink ..... 7.00 40.00  
1000 Suncoed, bright Saturn-red ..... 6.00 35.00  
1000 Surprise, vermilion-red ..... 6.00 35.00  
THE WAYSIDE GARDENS CO.  
Mentor, O.

## HARDY PLANTS

	Per 100	Per 1000
Alyssum saxatile	\$1.00	\$ 8.50
Aquilegia (Columbine), Mrs. Scott Elliot's Hybrids	1.00	8.50
Arabis alpina	1.00	8.50
Campanula (Canterbury Bells)	1.00	8.50
Carnation, Grenadin, mixed	1.50	12.50
Carnation, Malmalson	1.50	12.50
Cheiranthus (Siberian Wallflower)	1.00	8.50
Coreopsis, double	1.00	8.50
Delphinium, Belladonna and Bellamosum	1.00	8.50
Dianthus barbatus, Sweet Wm., pink, red and mixed	1.00	8.50
Dianthus barbatus, dwarf, mixed	1.00	8.50
Digitalis (Foxglove), mixed	1.00	8.50
Feverfew, Ball's Double White	1.00	8.50
Lythrum roseum superbum	1.00	8.50
Primula polyantha	2.00	15.00
Shasta Daisy, Alaska, single	1.00	8.50
Tritoma (Red Hot Poker)	1.00	8.50
Pfitzer Hybrids	1.00	8.50
Veronica spicata	1.00	8.50
J. C. SCHMIDT		
Otter and Maple Sts.		Bristol, Pa.

## HARDY FIELD-GROWN PERENNIALS

Anchusa myosotidiflora, Aquilegia, separate colors; Arabis, Artemisia; Aubrieta; Campanula; Carnations; Chives; Dianthus; Bleeding Hearts; Digitalis; Gaillardia; Geum; Iberis sempervirens; Liatris; Russell Lupine; Myosotis; Phlox subulata, 10 varieties; Primrose; Pyrethrum; Daisies; Shasta; Esther Reed; Scabiosa, Isaac House; Sedum, 10 varieties; Sweet Williams; Thymes; Violas and Violets.

If you haven't received our list, send for it now. 100 more good varieties. Orders taken now for early spring delivery. All plants fresh dug for each order.

GEORGE FRANK & SON  
Penfield, N. Y.

## BLEEDING HEARTS

Per 100  
Dicentra spectabilis, 3 to 5-eye ..... \$25.00  
Dicentra spectabilis, 5 to 8-eye ..... 35.00  
Also peonies and day lilies.

Since 1915

ROBINSON GARDENS  
Scotts, Mich.



**WHY NOT TRY**  
**HEUCHERA** (Coral Bells), coral-pink.  
 Fine for cutting.  
 Attracts hummingbirds.  
 For the border.  
 Grows in sun or shade.  
 Pot plant.

Strong plants ..... Per 100 Per 1000  
 \$15.00 \$130.00  
 Strong single divisions ..... 12.00 100.00  
 F.O.B. Battle Creek. Minimum order, \$10.00.  
**VERONA GARDENS**  
 Rt. 5, Box 476 Battle Creek, Mich.

**TRANSPLANTED LINERS**

Per 100  
 Alyssum saxatile compactum ..... \$5.00  
 Daisy, Conqueror ..... 4.00  
 Doronicum caucasicum ..... 6.00  
 Feverfew, Ball's White ..... 2.50  
 Geum Lady Stratheden ..... 6.00  
 Geum Mrs. Bradshaw ..... 6.00  
 Iberis sempervirens ..... 6.00  
 Minimum order, \$5.00. F.O.B.  
**FRANK KOHLER** Mikado, Mich.

**PEONY CLUMPS**, blooming size, 3-yr.  
 whole clumps grown from small divisions.  
 All new roots, no rotten centers and all  
 double varieties, mixed. Fine for counter  
 trade, naturalizing or mass effect planting.  
 \$25.00 per 100. Cash, packed free. Sample 25c.  
**ALTA VISTA NURSERIES**  
 Brady St. Rd. Davenport, Ia.

**PANSY PLANTS**

Giant strain, none better. Giant Swiss and  
 Maple Leaf, also in separate colors, blue,  
 white and yellow, \$1.00 per 100, \$7.50 per  
 1000. 58 years' experience in growing  
 pansies.  
**J. C. SCHMIDT**, Bristol, Pa.

**ASTER PRIKARTI**, Per 100  
 Strong rooted cuttings ..... \$10.00  
**LYTHRUM, MORDEN PINK**,  
 Strong rooted cuttings ..... 6.00  
**PLANE VIEW NURSERY**,  
 Newport, R. I.

America's Best Source  
 for Hardy Plants is  
**THE WAYSIDE GARDENS**  
 Mentor, Ohio  
 Write for Trade List.

**PERENNIALS**

New and standard kinds.

New wholesale list now ready.

**CARROLL GARDENS**

Box 15 Westminster, Md.

**ORIENTAL POPPIES**

Strong, true-to-name, field-grown roots.  
 Write for complete list.

**FLOR-ACRES** Bridgman, Mich.

**WELLER'S BETTER PERENNIALS**

**WELLER NURSERIES CO.** Holland, Mich.

Write for trade list.

If you don't find it listed here

Try a Want ad in the next issue

of the American Nurseryman.

**HOLLY**

Cutting-grown female plants out of 3-in. pots.

English Holly, green ..... \$40.00

English Holly, variegated ..... 45.00

50 minimum quantity with order.

**DESCANSO DISTRIBUTORS, INC.**

Wholesale Growers

Chino, Calif.

Hex bullata, 2-yr., field-grown, heavy, 50c

ea.

**BAIER LUSTGARTEN NURSERIES**

Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

**ILEX OPACA** (American Holly), yearlings

in 4-in. pots. Male or female, 37½c ea. to

50c ea., named varieties. Free catalog.

**EARLE DILATUSH'S HOLLY FARM**

U. S. Hwy. 130 Robbinsville, N. J.

**HOUSE PLANTS**

**AFRICAN VIOLETS—WHOLESALE**

Send for list—150 varieties.

New and older varieties with many of

our own introductions. We ship anywhere

in U. S. A. or Canada.

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4330 Auburn Rd. Salem, Ore.

Start Your Offer Now

In the American Nurseryman

And Watch Sales Climb.

**IVIES**

**HEADQUARTERS FOR QUALITY**

**HARDY ENGLISH IVY**

Nursery grown in the Allegheny foothills.

Strong 2½-in. pots, \$12.50 per 100. Cash

with order.

**BABCOCK GARDENS**

R. 3 Jamestown, N. Y.

**BALTIC IVY**, strong, clean stock. Rooted

cuttings, 6c; \$55.00 per 100. 2-in. pot, 10c;

\$95.00 per 1000. Ready now, 25% down to

reserve.

**STRATFORD GARDENS**

Russell Breece Delaware, O.

**IRIS**

**GERMAN IRIS**

Healthy roots from 1-yr. transplant stock.

Per 100  
 Action Front ..... \$12.00  
 Angelus ..... 12.00  
 Blue Shimmer ..... 12.00  
 Captain Wells ..... 12.00  
 Copper Rose ..... 12.00  
 Elmohr ..... 12.00  
 Fair Elaine ..... 12.00  
 Flora Zenor ..... 12.00  
 Gairden Maize ..... 12.00  
 Grand Canyon ..... 12.00  
 Lady Mohr ..... 12.00  
 Ming Yellow ..... 12.00  
 Prairie Sunset ..... 12.00  
 Sunny Ruffles ..... 12.00  
 The Red Douglas ..... 12.00  
 Worthington ..... 12.00  
 25 or more plants of one variety at 100 rate.

**IRIS KAEMPFERI**

Per Per  
 Doz. 100  
 Blue Bird, single, rich blue ..... \$4.00 \$15.00  
 Columbia, double, blue,  
 white veins ..... 4.00 15.00  
 La Favorite, white, blue veins,  
 purple center ..... 4.00 15.00  
 Lucie Marshall, double,  
 pansy-violet, white veins ..... 4.25 18.00  
 Matchless, double, white, blue  
 veins, yellow center ..... 4.00 15.00  
 Nishike-Yama, double, mauve,  
 veined white ..... 4.00 15.00  
 Pyramid, double, violet-purple ..... 4.00 15.00  
 Repsime, double, azure-blue ..... 4.00 15.00  
 Mixed, all colors ..... 3.75 12.00  
 25 or more plants of one variety at 100 rate.

**IRIS PUMILA**

Atroviolacea, wine,  
 reddish-purple, dwarf ..... 4.00 15.00  
 Excelsa, pale lemon-yellow,  
 dwarf ..... 4.00 15.00  
 Keepsake, bright yellow ..... 4.00 15.00  
 Sapphire, rich sapphire-blue ..... 4.25 18.00  
 25 or more plants of one variety at 100 rate.

**IRIS SIBIRICA**

Caesar's Brother, rich  
 black pansy-violet ..... 3.75 12.00  
 Galtineas, clear blue,  
 extra large ..... 3.75 12.00  
 Llewellyn, soft blue, large ..... 3.75 12.00  
 Perry's Blue, sky-blue ..... 3.75 12.00  
 Snowcrest, snowy-white ..... 3.75 12.00  
 25 or more plants of one variety at 100 rate.  
**THE WAYSIDE GARDENS CO.**  
 Mentor, O.

**LINING-OUT STOCK**

**LINING-OUT STOCK**

Each  
 Pfizer Juniper liners, field-grown,  
 branched, trimmed, 12 to 15 ins. .. \$0.65  
 15 to 18 ins. .... .75  
 Andorra Juniper, 6 to 10 ins. .... 14½  
 Blue Hetz Juniper, 6 to 8 ins. .... 14½  
 Euonymus patens, small leaf ..... 12½  
 Hill's Dark Green American Arbor-  
 vitae ..... 25  
 Pfizer Juniper, 6 to 8 ins. .... 14½  
 8 to 10 ins. .... 20  
 Pfizer Juniper nana (Dwarf),  
 5 to 6 ins. .... 20  
 Von Ehron Juniper, 8 to 10 ins. .... 14½  
 Bare root:  
 Andorra Juniper, 6 to 8 ins. .... .08  
 Blue Hetz Juniper, 6 to 8 ins. .... .08  
 Blue Spiraea (Caryopteris), 5 to 6 ins. .... .05  
 Blueleaf Dwarf Arctic Willow, beds,  
 2-yr., 10 to 15 ins. .... .10  
 Desmodium penduliflorum, 5 to 6 ins. .... .10  
 Euonymus coloratus, 6 to 10 ins. .... .04  
 Forsythia, Lynwood Gold, 5 to 6 ins. .... .10  
 Forsythia, Spring Glory, beds,  
 1-yr., 6 to 8 ins. .... .05  
 2-yr., 12 to 15 ins. .... .10  
 Lythrum, Morden Pink, 5 to 6 ins. .... .05  
 All prices are for 500 or more total order.  
 Less than 500, add 2c per plant.  
**McININCH GREENHOUSES**  
 St. Joseph, Mo.

**LINING-OUT STOCK**

Per 100 Per 1000  
 Euonymus patens ..... \$12.00 \$100.00  
 Euonymus japonicus ..... 12.00 100.00  
 Euonymus japonicus ..... 15.00 .....  
 Juniperus chinensis ..... 18.00 150.00  
 Juniperus glauca hetzi ..... 18.00 150.00  
 The above are stocky, well-established  
 plants in 2½-in. rose pots,  
 Juniperus virginiana, bed-  
 grown seedlings,  
 2 to 4 ins. .... 3.00 25.00  
 4 to 6 ins. .... 4.00 35.00  
 Pyracantha coccinea ..... 15.00 .....  
 Pyracantha lalandi ..... 15.00 .....  
**NELSON NURSERY**  
 1309 S. Van Buren P. O. Box 1162  
 Enid, Okla. ●

**PYRACANTHA COCCINEA LALANDI**

Hardy stock from selected fruiting plants.  
 3-in. pots, TT, 6 to 8 ins., branched, \$32.50  
 per 100. Well-rooted. Cash with order.  
**BABCOCK GARDENS**  
 Rt. 3, Jamestown, N. Y.

**CHAMAECYPARIS AUREA**

2½ to 6 ins., transplants, ..... \$17.50 per 100  
 1 to 3 ins., seedlings, ..... 7.50 per 100  
**FRANK KOHLER** Mikado, Mich.

**LINERS FOR FALL AND SPRING**

Each—per 100 per 1000  
 Azalea kaempferi, 3-yr., TT, ..... \$0.35 \$0.35  
 Dwarf Flowering Quince, 1-yr. .... .10 .08  
 Euonymus alatus compactus,  
 1-yr., T, 5 to 8 ins. .... .22 .18  
 Euonymus vegetus,  
 1-yr., T, 3 to 6 ins. .... .15 .13  
 2-yr., TT, 6 to 12 ins. .... .28 .25  
 Ilex crenata convexa, 1-yr., T, ..... .20 .18  
 Juniperus glauca hetzi, 2-yr., T, ..... .30 .28  
 Cash with order, or 25% down and balance  
 C.O.D. No packing charge. 25 at 100 rate,  
 250 at 1000 rate.

**GREEN RIDGE NURSERY**

Middle Ridge and Rt. 528 Madison, O.

**PYRACANTHA LALANDI**

2½-in. pot, T, 1-yr. .... \$25.00 per 100  
 4-in. pot, TT, 1½-yr. .... 60.00 per 100  
 5-in. pot, TT, 2-yr. .... 95.00 per 100  
**ILEX ROTUNDIFOLIA**  
 2-in. rose pot, 4 to 6 ins. .... 18.00 per 100  
 1½-in. rose pot, 3 to 5 ins. .... 15.00 per 100  
**EDWARD GILSON & SON NURSERY**  
 U. S. Rt. 20 Perry, O.

Azalea cuttings, all varieties, \$50.00 per  
 1000. Japanese Black Pine, Norway Spruce,  
 Blue Douglas Fir, Colorado Blue Spruce,  
 Carolina Hemlock, Mugho Pine, Ginkgo,  
 Honey Locust and White Dogwood, \$30.00 to  
 \$100.00 per 1000.

**BAIER LUSTGARTEN NURSERIES**

Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

**LINERS—ORNAMENTAL ARISTOCRATS**  
 Send for our new, free catalog of lining-  
 out stock of the better ornamentals, includ-  
 ing a long list of hardy azaleas. See our  
 display ad on page 37 of this issue.

**JOHN VERMEULEN & SON, INC.**

Neshanic Station, N. J.

**PANSIES**

**PANSIES**  
 Swiss Giants, Roggli strain or Florist Se-  
 lect, both mixed, \$8.00 per 1000, 5000 or more,  
 \$7.00 per 1000.  
 Kazoo-Goliath, mixed, our own Giant mix-  
 ture, \$6.00 per 1000, 5000 or more, \$5.00 per  
 1000.  
 Super Swiss Giants, mixed, \$7.00 per 1000,  
 5000 or more, \$6.00 per 1000.  
 All good, strong, healthy plants, field  
 grown in low tamed soil. Packed right for  
 safe delivery. Write for hardy plant list.  
**KAZOO-GARDENS NURSERY**  
 206 Richard Ave.  
 Kalamazoo 33, Mich.

**PEONIES**

Peonies in quantity. Felix Crousse; Karl  
 Rosfield, red; Festiva Maxima, white, and  
 Edulis Superba, pink. All large double,  
 \$30.00 per 100. **GILBERTSON NURSERY**,  
 Kindred, N. D.

**TREE PEONIES—HERBACEOUS PEONIES**

Write for trade list.

**ATHA NURSERY** West Liberty, O.

**PHLOX**

**PHLOX**

Our new crop of hardy 1-yr.-old phlox,  
 and also our Creeping Phlox (Phlox stolon-  
 ifera), look very promising. Ask for our  
 new trade list.

**WALTERS GARDENS**

Rt. 2, Box 98 Zeeland, Mich.

**PHLOX**

If interested in phlox and other perennials,

write for new list.

**HENRY LE POIRE**

Rt. 2 Zeeland, Mich.

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**NORTHERN OHIO GROWN ROSES**

Naturally Matured—Conscientiously Handled

If you have not as yet received it, ask for

our list of Hybrid Teas, Floribundas and

Climbers in the newest and best varieties.

For 30 years a consistently reliable source

of finer roses.

**GERARD K. KLYN, Inc.**

Mentor, O.

**ROSEBUSHES**

Good roses will not be in oversupply.

Early bookings are indicated. List now

ready. Send for your copy today.

**MARTIN'S ROSE NURSERY**

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**ROSES**

The season's best deal. See for yourself.

Standard and patent varieties. List to the

trade.

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Box 876 Overton, Tex.

**SEEDS**

**PODOCARPUS MAKI** seeds, new crop now

ready. Order now. Shipment must be made

as soon as seeds are picked. \$3.50 per 1 lb.,

10 lbs. for \$30.00.

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Plymouth, Fla.

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**LAWN SEED**  
Prepared specially for the professional trade.  
50 lbs. 100 lbs.  
Landscape gardeners' mixture. \$33.00 \$64.00  
Cemetery mixture. 38.00 73.00  
Contractors' mixture. 17.00 31.00  
Shady mixture. 28.00 54.00  
F.O.B. New York. 300 lbs. shipped freight paid. Write for wholesale price list which shows contents of above and other formulas, as well as prices for individual grasses.

**HERBST BROS. SEEDSMEN, INC.**  
678 Broadway New York 12, N. Y.

**YUNNAN**  
**NEMATODE-RESISTANT PEACH SEEDS**  
Grown from selected Freestone stock in isolated orchards. \$4.00 per 100; \$36.00 per 1000; 5000 lots, 2½¢ ea.; 10,000 seeds or more, 2¢ ea. Prices F.O.B. Princess Anne, Md., or Marshallville, Ga.  
Yunnan seeds give added vigor as well as resistance to most root nematodes.

**BOUNTIFUL RIDGE NURSERIES**  
Princess Anne, Md.

**MULTIFLORA ROSE SEEDS** picked from thorny, upright plants. Order now for fall delivery from 1954 crop.  
1 to 5 lbs. \$3.90 per lb.  
6 to 25 lbs. 3.65 per lb.  
26 lbs. or more 3.40 per lb.

**F.O.B.**  
**FARMLAND IMPROVEMENT CO.**  
Box 124 Yorkville, Ill.

**TREE SEEDS**, domestic and foreign. Get scarce kinds by ordering early. List.

**K. J. BRADEN** Milton, N. H.

**Start Your Offer Now**  
in the American Nurseryman  
And Watch Sales Climb.

## SHRUBS and TREES

**1-YR. SEEDLINGS**

	Per 100	Per 1000
Acer palmatum	\$ 5.00	\$ 40.00
Cornus kousa	5.00	50.00
Fagus sylvatica	7.00	65.00
Syringa vulgaris	3.00	25.00

**2-YR. SEEDLINGS**

Abies balsamea	5.00	40.00
Abies douglasii	6.00	55.00
Chinese Chestnut	20.00	180.00
Ilex crenata	6.00	50.00
Thuja orientalis	3.50	30.00

**3-YR. SEEDLINGS**

Picea alba	3.50	25.00
Picea excelsa	3.50	25.00
Picea pungens glauca	4.50	40.00
Pinus mughus	4.00	30.00
Pinus strobus	3.50	25.00
Pinus sylvestris	3.50	25.00
Thuja occidentalis	5.00	40.00
Tsuga canadensis	5.00	50.00
Tsuga caroliniana	6.00	50.00

**1-YR. POTTED GRAFTS**

Cornus florida rubra	65.00	650.00
Picea pungens kosteriana	125.00	1250.00
Picea pungens moerheimii	125.00	1250.00
Pinus cembra	65.00	650.00
Pinus strobus nana	65.00	650.00
Taxus sargentii canadensis	65.00	650.00
Wistaria multiflora	50.00	500.00

**2-YR. POTTED GRAFTS**

Cornus florida, branched	50.00	500.00
18 to 24 ins.	50.00	500.00
Picea alba, 6 to 8 ins.	6.00	50.00
Picea excelsa, 6 to 8 ins.	6.00	50.00
10 to 15 ins.	15.00	140.00
Picea pungens glauca	5.00	50.00
Tsuga canadensis	10.00	95.00
5 to 8 ins.	15.00	140.00
8 to 10 ins.	20.00	190.00
10 to 12 ins.	30.00	290.00
12 to 18 ins.	30.00	290.00

**ROOTED CUTTINGS TRANSPLANTED**

**IN BEDS**

Azalea hinodagiri	15.00	150.00
4 to 6 ins.	15.00	150.00
Ilex crenata, 4 to 6 ins.	10.00	85.00
Ilex crenata, 5 to 8 ins.	10.00	90.00
Ilex retundifolia	10.00	90.00
5 to 8 ins.	12.00	100.00
Juniper, Hetz, 4 to 8 ins.	12.00	100.00
Juniper, Irish, 4 to 6 ins.	10.00	100.00
Juniper, Pfitzer	12.00	100.00
4 to 6 ins.	12.00	100.00
Juniper, Spiny	10.00	90.00
Juniper, Spiny, potted	15.00	150.00
Pyraecantha islandi, potted	15.00	150.00
Pyraecantha islandi, potted	20.00	200.00
Retinospora plumosa aurea	10.00	90.00
5 to 8 ins.	10.00	90.00
Taxus brevifolia	10.00	90.00
4 to 6 ins.	10.00	90.00
Taxus cuspidata	10.00	90.00
4 to 6 ins.	10.00	90.00
Taxus hatfieldi	10.00	90.00
4 to 6 ins.	10.00	90.00
Taxus hicksii, 4 to 6 ins.	10.00	90.00
Thuja globosa, 5 to 8 ins.	10.00	90.00
Thuja nigra, 4 to 6 ins.	10.00	90.00
Thuja variegata	12.00	100.00
5 to 8 ins.	12.00	100.00
Viburnum burkwoodii	12.00	100.00
12 to 15 ins.	50.00	500.00
Pachysandra	4.00	35.00

**VAN DINE NURSERY**

Berdan Ave. Freckness, N. J.

## SURPLUS NURSERY STOCK, FALL, 1954

**ARBORVITAE**  
Each  
1000 Globe A., 12 to 15 ins. B&B. \$1.00  
650 Globe A., 15 to 18 ins. B&B. 1.25  
350 Pyramidal A., 3 to 4 ft. B&B. 2.25  
200 Pyramidal A., 4 to 5 ft. B&B. 3.00  
HEMLOCK, clear plants.

1000 24 to 30 ins. 2.00  
1500 30 to 36 ins. 2.50  
1500 36 to 42 ins. 3.25  
1000 42 to 48 ins. 4.00  
500 4 to 5 ft. 5.50

**JUNIPERS**

2000 Pfitzer J., 18 to 24 ins. 2.25  
300 Pfitzer J., 24 to 30 ins. 2.75  
100 Pfitzer J., 30 to 36 ins. 3.25  
500 Golden Spreader J., 18 to 24 ins. 1.50  
500 Column J., 18 to 24 ins. 1.00  
500 Column J., 24 to 30 ins. 1.25  
500 Column J., 30 to 36 ins. 1.50  
1750 Column J., 4 to 5 ft. 2.00  
123 English J., 4 to 5 ft. 2.75

5 to 6 ft. 3.50  
54 Spiny J., 4 ft. 3.50  
200 Spiny J., 18 to 24 ins. 1.50  
385 Spiny J., 15 to 18 ins. 1.25  
300 Ashford J., 3 to 4 ft. bushy 2.25

**BROAD-LEAVED STOCK**

200 Dahoon Holly, 18 to 24 ins. 2.00  
100 Dahoon Holly, 24 to 30 ins. 2.50  
1250 Euonymus, patens and carrieri, 15 to 18 ins. 1.50  
1250 Euonymus, patens and carrieri, 18 to 24 ins. 1.75  
250 Elaeagnus, 30 to 36 ins. 2.25

**AZALEAS**

Hinodagiri, Snow, Coral Bells, Salmon Beauty, 12-in. heads shipped from 6-in. pots. Fall delivery, \$1.25 ea., spring, 1955 delivery, \$1.50 ea.

3000 Euonymus liners, patens and carrieri, \$15.00 per 100, \$135.00 per 1000. Small leaf hardy Ivy, \$100.00 per 1000.

**TRITSCHLER'S GREENHOUSES**

4425 W. Lawn Dr. Nashville 9, Tenn.

**QUALITY STOCK**

Coniferous and broad-leaved evergreen liners. Heavy, one year under lath. 2½-in. pots. 250 plants at 1000 rate.

**Each per 1000**

Arborvitae, Sibir. \$0.18  
Berckmans Biota (aurea nana) .18  
Ilex cornuta .16  
Ilex cornuta burfordii .15  
Ilex crenata convexa .15  
Ilex crenata rotundifolia .15  
Ilex opaca, Howard .18  
Ilex opaca, from heavy bearer .18  
Juniper, Greek .16  
Juniper, Irish .15  
Juniper, Polish .15  
Juniper, Andorra .15  
Juniper, Hetz .18  
Juniper, Pfitzer .18  
Juniper, Compact Pfitzer .18  
Juniper, Von Ehron .18  
Juniper, Blue Pfitzer .22  
Juniper, Oldfield Common .22  
Nandina domestica .15  
Bed-grown stock: Ilex burfordii, 2-yr., 15 to 20 ins., 25¢; Laurel Cherry, 10¢; Ligustrum lucidum, 10¢; Photinia serrulata, 10¢.

Terms: 5% discount and free packing for cash with order during September. Order now for fall and spring. Regular 2% discount after September 30. Add 2¢ per plant on orders of less than 250. Samples on request. Write for prices on B&B stock.

**Phone: Columbus, Miss., 5342**

**R. 2 Caledonia, Miss.**

**QUALITY STOCK**

**Per 100**

**IRIS**  
Christabel \$11.00  
Mount Cloud 11.00  
White Cloud 11.00  
**AZALEA MOLLIS**, 3-yr. T. heavy.  
sheared and bushy, 15 to 18 ins. 85.00  
12 to 15 ins. 70.00  
10 to 12 ins. 55.00

**LIGUSTRUM AMUR RIVER PRIVET**, heavy, 5 canes and up, 15 to 18 ins. 10.00  
18 to 24 ins. 13.00  
2 to 3 ft. 17.00  
3 to 4 ft. 25.00

**LIGUSTRUM OVALIFOLIUM** (Calli), 3 ft. 15.00

**LILAC, FRENCH**, Florent Stepm.

Ruhm von Horstenstein, Charles X. Michel Buchner, Hugo de Vries, Ludwig Spaeth, President Greys, Charles Joly, Hugo Koster, Mme. Lemoine. 2-yr., nice, bushy 2 to 3 ft. plants. 85.00  
18 to 24 ins. 70.00  
15 to 18 ins. 55.00  
12 to 15 ins. 40.00  
Cash with order earns free packing. One-fourth cash with order; balance before shipping or C.O.D.

See our display ad on page 55.

**THE LITTLE MOUNTAIN VIEW NURSERY**

R. D. 1, Rt. 84 Mentor, O.

**MULTIPLE VARIETY APPLE TREES**

**Per 10 Per 100**

5-N-1, 4-yr., 6 to 7 ft. \$17.50 \$160.00  
5-N-1, 3-yr., 8 to 5 ft. 15.00 135.00  
4-N-1, 4-yr., 6 to 7 ft. 15.00 135.00  
4-N-1, 3-yr., 8 to 5 ft. 11.00 100.00  
3-N-1, 4-yr., 6 to 7 ft. 12.50 110.00  
3-N-1, 3-yr., 3 to 5 ft. 9.00 80.00

Write for complete wholesale price list.

**WAYNESBORO NURSERIES**

WAYNESBORO, VIRGINIA

## QUALITY LINERS

**Each**

Abies pinsapo, 3-in. pot. \$0.35  
Andromeda, 4 to 6 in. br. .15  
6 to 8 ins. br. .20  
Azalea mollis, 2-yr., S. X. .10  
Clematis montana, 3-in. pot. .35  
Daphne cneorum, 2-in. pot. .20  
Daphne odora, 2-in. pot. .25  
3-in. pot. .45  
Gentian acaulis, single div. .12  
Heather, carnea, X. .12  
County Wicklow, X. .12  
King George, X. .12  
Mediterranean Hybrid, X. .12  
Vevilli, X. .12  
Juniperus meyeri, 6 to 8 ins., X. .25  
8 to 10 ins., X. .35  
Juniperus tamariscifolia, 4 to 6 ins., X. .12  
6 to 8 ins., X. .15  
8 to 10 ins., br., X. .27  
Japanese Maple, 2-yr., S. .10  
Norway Spruce, 3-in. pot, 10 to 12 ins. .35  
Rhododendron ponticum, 4 to 6 ins., X. .20  
6 to 8 ins., X. .25  
Thuja woodwardi globosa, br. .25  
8 to 10 ins., X. .25  
Viburnum burkwoodii, 2-in. pot. .30  
Viburnum davidi, frame, X. .50  
Cash with order, please.

**FOUR STAR NURSERY**

8215 238th, S. W. Edmonds, Wash.

## NURSERY STOCK

**Acer dissectum**, 1-yr. grafts.

Acer Paasens Black, whip, 4 to 5 ft.

Acer Paasens Black, whip, 5 to 6 ft.

Camellia, Queen of Camellia, hardy to 20 degrees. 1-yr., pot-grown.

Cedrus atlantica glauca, 1-yr. grafts, 1½ to 2 ft.

Chamaecyparis, high-growing and dwarf, 1-yr. grafts.

Cornus florida, pot-grown, 2-yr. cuttings.

Cornus florida rubra, pot-grown, 1-yr. cuttings.

Cornus florida rubra, layers.

Elaeagnus ebbingii, 1-yr. grafts.

Fagus asplenifolia, riversi and pendula in various sizes. 1 and 2-yr. grafts.

Fagus sylvatica atropunicea (purpurea) major, 1 and 2-yr. grafts. 2 to 3 ft., 3 to 4 ft.

Rhododendrons, 1-yr. grafts, excellent.

All our products are grown on sandy loam.

Request catalog and price list.

**HOLLAND NURSERY PRODUCTS**

P. O. Box 339, Madison Square Station

New York 10, N. Y.

## SHRUBS AND TREES

**ROBINIA PSEUDOACACIA (Black Locust)**, dug by buyer, prices each: 1½ to 2 ins., \$2.00; 2 to 2½ ins., \$3.00; 2½ to 3 ins., \$4.50; 3 to 4 ins., \$6.00.

**PINUS STROBUS**, up to 8 ft.

**PICEA EXCELSA**, up to 6 ft., at low prices if dug by buyer.

The following, dug by us, per 100:

**ROBINIA PSEUDOACACIA**, 4 to 5 ft., \$10.00; 5 to 6 ft., \$20.00; 6 to 7 ft., \$30.00.

These range from ½ to 1-in. caliper, and many are branched.

**CORNUS STOLONIFERA**, multiple stems, 3 to 5 ft., \$40.00.

**LESPEDeza BICOLOR**, multiple stems, 4 to 6 ft., \$50.00.

Hubert Van Duyn

**HIDDEN VALLEY FARM NURSERY**

Phone: MI-7-1158 Millington, N. J.

## COTONEASTER PRAECOX

This is one of the hardest Cotoneasters which went through 20 degrees below zero without any harm. It has large berries like cranberries which color up in the middle of August and remain on until very late fall. It grows rather flat and makes an ideal plant to combine with foundation plantings, especially with ranch-type houses. We can offer the following for fall, 1954, and spring, 1955:

**Per 100 Per 1000**

Strong, 1-yr. seedlings, branched, 4 to 8 ins. \$25.00 \$225.00

Transplants, 2-yr., 8 to 12 ins. 50.00

**C. HOOGENDOORN**

Turner Rd. Newport, R. I.

## SHRUBS &amp; TREES

**Per 100 Per 1000**

Calliarcia dichotoma (Beauty-herry), 2-yr. seedlings, 3 to 12 ins. \$ 7.50 \$50.00

Cotoneaster divaricata, transplanted seedlings 10.00 85.00

Photinia villosa, 2-yr. seedlings, root-pruned, 6 to 12 ins. 10.00 85.00

Syringa amurensis japonica, (Japanese Tree Lilac), 6 to 12 ins. 10.00 85.00

**NEWPORT NURSERY CO.**

Newport, Mich.

## CHINESE CHESTNUT TREES

Row run, culls out, 3-yr.-old stock, 2 ft. and up. Mostly 2 to 3 ft., some 4 ft. All branched and well-rooted. Tied in 20's, in lots of 100, \$32.50 per lot. Very profitable lining-out stock or for mail-order sales.

P.O. Box 1, Cowen, packing at cost. All other popular sizes in seedlings, transplants, and 1-yr.-old liners in quantities. Write for prices.

**GOLD CHESTNUT NURSERY**

Cowen, W. Va.

### VIBURNUM CARLESI

This is the first time since the beginning of the war that we have been able to offer a supply of Viburnum Carlesi seedlings. All these years we have not been able to buy any seed and still cannot, but can offer these seedlings because we have our own seed by this time. We offer the following for fall, 1954, and spring, 1955:

Strong, 2-yr. seedlings Per 100 Per 1000  
4 to 6 ins. \$15.00 \$125.00  
6 to 8 ins. 20.00 175.00  
8 to 12 ins. 30.00 250.00

Transplants, branched, mail-order size, 12 to 18 ins., \$75.00 per 100.

C. HOOGEENDOORN  
Turner Rd. Newport, R. I.

### PYRACANTHA

Pot-grown, strong plants, perfect roots. Lalandi Ebon, European White, Kusan Sunberry, 2-yr. transplanted cuttings, pot-grown.  
6 to 8 ins., per 100 \$11.00  
8 to 10 ins., per 100 15.00  
Introducing Keessen's Superb, an excellent and gracious grower, with thin dark leaves, fruit deep orange, hardy. Keessen's Superb is a novelty of outstanding quality. Only available in limited supply.

### HOLLAND NURSERY PRODUCTS

P. O. Box 339, Madison Square Station  
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Importers of choice material.

### FIRST-CLASS STOCK

We offer first-class stock in the following trees: Birch; European White, Cutleaf, and Clump. Flowering Weeping Cherry; Kwanzan, Mt. Fuji and Amanogawa. Paul's Scarlet Thorne, low and high branched. Flowering Crab Apple in all leading varieties. All of the above we offer at a special price in the popular grades. Send for our price list of these and other leading items that we have to offer.

### VILLA NURSERIES

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Cornus florida Each  
700—2 to 3 ft., B&B \$1.25  
300—3 to 4 ft., B&B 2.00  
270—4 to 5 ft., B&B 2.50  
156—6 to 6 ft., B&B 3.50  
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All trees are well branched, single body, heavy caliper, and nursery-grown. Bloom buds on most of the three larger grades.

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10,000 Forsythia, Spiraea thunbergii, Spiraea vanhouttei, Weigela and Deutzia, 3 to 4 ft., heavy, 50¢; 4 to 5 ft., 75¢.

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Phone: Yaphank 4-3444

Cotoneaster divaricata and C. horizontalis, heavy plants, 6-in. cans, \$1.00.

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Middle Island, L. I., N. Y.  
Phone: Yaphank 4-3444

8000 Cornus florida, 18 to 24 ins., \$1.00; 24 to 36 ins., \$1.50; 4 to 5 ft., \$3.00. Cornus florida rubra, 24 ins., heavy, \$2.50; 3 ft., heavy, \$3.00; 4 ft., heavy, \$4.00; 5 ft., heavy, \$5.00. All B&B.

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Jackman, Lord Neville, Ramona, Ernest Markham, Languiosa Candia—No. 1, 4-in. pot plants, well-ripened. In any quantity. Please write us for quotation. Clematis have been our specialty for years. A few items of shrubs also available. Spring Glory, Forsythia, Snowberry, froebel, spectabilis, and Hall's Japanese Honeyplum.

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#### MINNESOTA WHITE CEDAR FLATS

Per 100  
No. 1, 14x20x2 1/2 \$24.00  
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No. 4, 12x16x3 1/2 21.75  
No. 5, 14x16x2 1/2 20.75  
No. 6, 14x16x3 1/2 24.50  
No. 7, 15x22x3 1/2 37.25  
No. 8, 15x22x3 1/2 37.50  
No. 9, 11 1/4 x22 1/2 x3 1/2 23.00  
No. 10, 11 1/4 x22 1/2 x3 1/2 26.00  
No. 11, 13 1/2 x16 1/2 x5 1/2 30.00  
No. 12, 5x5x11 16.00  
No. 13, 5x5x16 18.50

All other sizes quoted on request.  
5 per cent discount on orders of 1000 or more.

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50 Pieces to Bundle.  
1x1-in.—3 ft., pointed \$3.00 per bundle  
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These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

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50 to 99.....	5.25	10.00
25 to 49.....	5.75	11.00
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### DOUBLE STRENGTH (24 ounce)

No. of Cases	Size of Cases	
	50-ft.	100-ft.
100 or more.....	\$7.50	\$14.50
50 to 99.....	8.00	15.50
25 to 49.....	8.50	16.50
10 to 24.....	9.00	17.50
1 to 9.....	9.50	18.50

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100-case lots shipped to nearest port of entry at above prices.

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Sheet size, inches	No. Sheets in Case	
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10x12	60	120
10x14	51	104
12x14	43	86
14x18	29	58
16x20	23	46
16x24	19	38
18x20	20	40

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## ALABAMA SHORT COURSE

[Continued from page 15]

ally has meant the most expensive structure in the cost of maintenance over a period of time, resulting in more cost than if a more expensive greenhouse were first installed.

Man's control of environment in a greenhouse is not perfect by any means. Low light intensities cannot be supplemented economically to bring them up to the optimum. It is still not possible adequately to reduce high temperatures. Control of humidity is usually good but not perfect. For the most part, however, aeration, water and fertilization can be controlled adequately.

While greenhouse control is not perfect, it is far better than the outdoors, the speaker observed.

As the school continued on Friday morning, Dr. James Lyle spoke on the principles of plant disease control. He brought out that losses from disease may be classified in several ways. There may be a direct loss from lowered quality or quantity of the affected crop. There may be an indirect loss resulting from the cost of control, involving such things as disease surveys to determine the prevalence of a certain disease, the maintenance of an inspection and quarantine service to prevent the importation or spread of diseases, the cost of sprays and their application, eradication work and other expenses incidental to the control and prevention of diseases.

### Disease Control Measures

Dr. Lyle discussed control measures for plant diseases, stating that they must not be too complicated, difficult, dangerous or unpleasant for use by the average grower. Further, control practices must be worked out as solutions to individual problems in each location, and the best control methods will differ from one nursery or area to another, according to weather conditions, peculiarities of the site, type and condition of the crop, methods of culture and value of the crop.

He made these additional points: A control program should be worked out considering all kinds of losses; where control practices are opposed to other desirable practices, a compromise program should be worked out which will give the greatest return, all things considered, and control should have a definite purpose. Spraying, dusting or any other control practice without a concrete purpose is wasteful and may even be harmful to the crop.

Dr. Ray Self, plant pathologist,

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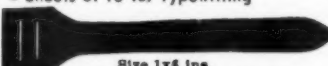
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ornamental horticulture field station, Spring Hill, Ala., brought the morning to a close by offering additional material on plant disease control.

The best means of control, Dr. Self observed, is to start with disease-free stock and keep it clean. The production of disease-free stock involves the use of clean seeds or cuttings, planting in clean soil or propagating medium in a clean house, general sanitation and often the application of protective sprays to prevent infections.

Discussing control of specific types of diseases, the speaker mentioned root rot, control of which consists of sanitation, avoidance of overwatering and the use of chemical soil drenches once the disease appears. The chief means of spread of root rot is probably through nursery stock. The causative organism is soil borne and can best be controlled by sterilizing the soil with MC-2, formaldehyde or steam and avoiding recontamination.

Leafspotting diseases on ornamentals are numerous and are easily spread by splashing water. Fermate, Manzate, Zineb, Copper-A and Orthocide 406 applied as sprays, were nontoxic to American magnolia, Japanese magnolia, loquat, Burford holly, dwarf rose, English laurel, crape myrtle and Pink Perfection camellia.

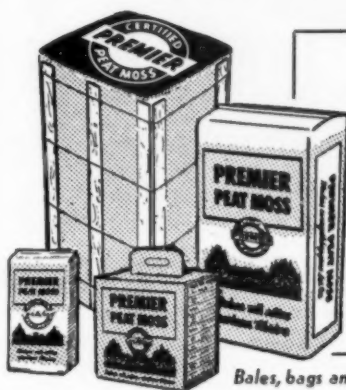
One or more species of ectoparasitic nematodes have been identified on 14 nursery crops, mostly liners, in Alabama, the speaker continued. A total of six different species, in addition to the root knot nematode, have been identified. Azaleas, camellias, gardenias, hollies, boxwood and privet are favorite hosts. External-feeding nematodes produce stubby roots and chlorotic leaves on azalea plants. Methyl bromide fumigation is still the best available means of eradication for liner beds.

#### Landscaping Small Home Property

Homer Fisher gave a most interesting and informative talk on "Planning, Planting, and Maintenance of the Small Home Property." He said that carefully made plans should be available before starting the landscape development of any home grounds. This is desirable regardless of the size of the property. For new properties, planning of the grounds should be done before the house is built and should include the selection or design of a house plan appropriate for the specific area concerned.

Before actually attempting to pre-

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A natural organically mineralized plant food and soil conditioner. Excellent for general use by landscape men and nurserymen.

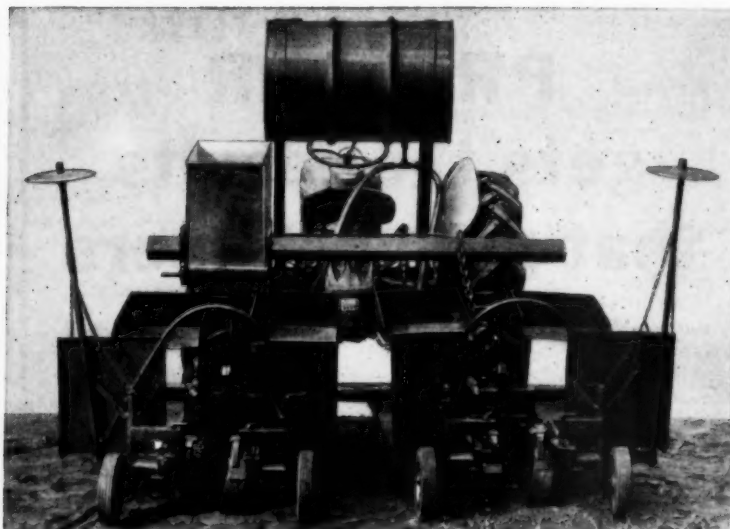
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pare plans for a property a careful survey of the area and its surroundings should be made. Such things as existing trees and natural outcroppings of rock may determine the type of development to be made in certain sections. In the same sense that the architect consults his client in regard to details of a house, so should the landscape planner obtain information about the grounds.

In making plans for home grounds, the usual procedure is first to divide the grounds into three major areas. These are generally classed as the front or semipublic area, the private area and the service area. The front or semipublic area is, as the term implies, the area in front of the house. It is usually open to public view and serves as a setting or foreground for the house. In most cases the best treatment for this area is to develop it as an open lawn with only such large trees as are needed to provide a foreground or frame for the house and to provide shade.

Such areas as the outdoor living room, floor garden and open lawns should be directly related to or easily accessible from the living room of the house.

Garden areas may be formal or informal as desired. Formal gardens should be developed only on level areas. Sloping sites should be graded to two or more level areas. Terraces or retaining walls may be used at the junction of different levels. Since formal gardens are based on geometric patterns, they are usually easier to plan than those of informal design. Rectangles, ovals, circles and combinations of these forms may be used to make the pattern of the garden. Formal treatments, in general, will often be most satisfactory for small properties.

### **Service Area Should Be Included**

For most home grounds a definite service area should be included. In this section provisions should be made for such things as fuel storage, a drying yard and a compost pile. Also, cut-flower and vegetable gardens, animal pens and similar things are often desired in the service area. This area should be easily accessible from the kitchen and driveway.

The normal planting season for lower south is the late fall, winter and early spring. Plants set early become better established and acquire some root growth during the winter and are ready to start growth immediately in the spring.

The use of wilt-reducing materials and the growing of plants in cans has



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CONTROLS THE SUN

made it possible to extend the planting program through the entire year.

Maintenance problems for home grounds include fertilizing, pruning, insect and disease control and general care of lawn areas.

Pruning is essential in the maintenance program if plants are to serve most effectively the purposes for which they are planted.

Fertilizing of ornamental plants naturally must be varied according to the types of plants and the conditions under which they are growing. Under average conditions an application of a complete fertilizer, such as 6-8-4 or 4-10-7, applied at the rate of two to four pounds to 100 square feet will be satisfactory. An application at this rate applied in the spring and just before growth starts and repeated in June will usually be sufficient.

### Determining Fertilizer for Trees

The amount of fertilizer for trees is often based on the diameter of the tree and the nitrogen content of the fertilizer used. One should use one-fourth pound of available nitrogen per inch of diameter up to six inches, and one-half pound per inch of diameter for trees six inches or more in diameter.

Application of fertilizer for trees



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Please send complete information about sizes, prices, etc., of Cloverset pots.

☐ Also sample set of 5 pots @ 50c.

NAME .....

FIRM .....

ADDRESS .....

CITY ..... STATE .....

Exclusive Eastern Distributor, MOORESTOWN GARDENS, INC., 55 E. Oak, Morrestown, Burlington Co., N. J.

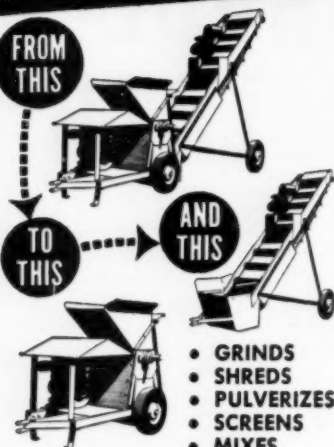


105th & WORNALL RD.,

KANSAS CITY 14, MO.

## W-W Compost Grinders and Soil Shredders have

### Many Uses!



Here's the most versatile grinding equipment available. Powered by two Briggs & Stratton engines, the grinder and elevator separate for individual use. It shreds heavy sod or grinds roughest matter into the finest compost material or mulch and loads it at the same time. Also mixes and screens. Wheels on each section for easy portability. \$684.00 complete with engines, F. O. B. Wichita.



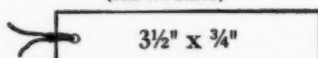
This popular portable model is gas or electric powered, with belt guard. \$175.00 complete with 2-h.p. Briggs & Stratton engine and belt guard. \$124.50 less motor and belt guard, F. O. B. Wichita.

All models make top dressing and potting soil without additional attachments.  
Write for Literature on Complete Line

**W-W GRINDER CORP.**  
DEPT. F WICHITA, KANSAS

## ALUMINUM TAGS

(All-weather)



- Patented cardboard backing permits easy embossing with ordinary lead pencil.
- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum, backed with yellow cardboard.
- Inexpensively priced:  
1000 for... \$14.00 250 for... \$5.00  
500 for... 9.00 100 for... 2.50

Write for samples.

**BERRYHILL NURSERY CO.**  
P. O. Box 696 Springfield, Ohio

## SOIL ANALYSIS

FOR GOOD GROWING WITHOUT GUESSWORK



Your only reliable guide to time, humus, plant foods and trace elements. Write today for full information and soil sampling directions.

**EDWIN HARRINGTON • Agricultural Chemist**  
CARVERVILLE, BUCKS COUNTY, PA.

can best be done by mixing the fertilizer with soil and applying in holes 12 to 18 inches deep distributed at 15-inch intervals from about two and one-half feet from the trunk to the outer spread of the branches or slightly beyond. It is better to bore or dig holes than to punch them.

The rest of the afternoon was spent in visiting small home properties at Auburn, with Mr. Fisher; Dr. Furuta; Henry Orr, of Alabama Polytechnic Institute, and James Franklin, horticulturist, Brooklyn Botanic Garden, Brooklyn, N. Y., conducting the tour and commenting on the landscape design around the different homes.

### George Sawada Introduces Guests

The banquet room of the Auburn Union building was the scene of the banquet held for those attending the course. After the banquet the guests of honor were introduced by George Sawada, president of the Alabama Nurserymen's Association.

Everyone flocked to Duncan Hall for the Saturday morning session of the short course. Henry Orr, associate professor of horticulture, gave an enlightening talk on nursery soils and fertilization. Mr. Orr said that by no stretch of the imagination can the nurseryman's operation be separated far from that of farming operations. The nurseryman faces the need for good systems of soil management with proper fertilization. The scheduling of crop rotations has been a practice generally accepted in other areas. Nurserymen face a dual problem of keeping their soil good and at the same time maintaining a high production level. The way for devastating soil losses in the nursery is opened by clean and continued cultivation, long growing seasons and removal of soil with balled stock.

It has been stated by experts in soils that more good soil can be lost or drained of fertility in nurseries than in any other crop-producing business. To be successful, a grower must have much know-how in soil management. In developing a soil management program for his nursery it would be highly beneficial to the nurseryman to call upon his local soil conservation service or extension service for their aid in surveys and advice on land use, the speaker declared.

Many nurserymen could easily use a pond for irrigation purposes, he added. In checking with the conservation or extension service, areas are often found that are ideally suited for pond use and for little

## "Make Top-Soil Out of Sub-Soil"

This new way of landscaping is taking the country by storm. No longer is it necessary to rely on hauled-in top-soil of uncertain quality. Just work in **HYPER-HUMUS Cultured Peat**



### The Organic Soil Vitalizer

**TIMELY HINT** - Mix one part **HYPER-HUMUS** with two parts loam when planting Bulbs, Perennials, Shrubs and Trees.

Write for Top-Soil Bulletin

**Hyper-Humus**  
★ COMPANY ★

BOX 31  
NEWTON  
N.J.

## CHLOROSIS CURED

With IRON SEQUESTRENE

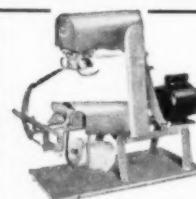
Iron sequestrene is the first and the best of the chelated irons. It is standardized at 12 per cent metallic iron and is the best treatment for all forms of iron chlorosis.

**NEW LOW PRICE**

\$20.00 for a 10-lb. drum,  
postpaid for cash with order.

**J. S. WELLS**

703 W. Main St. DUNDEE, ILL.



**FELINS  
ELECTRIC  
TYER  
ROTARY  
OR RACK  
TYPE**

Sturdy construction, smooth action, for tying all varieties of nursery stock, cut flowers and bunch vegetables at a great saving of time, money, twine.

**FELINS TYING MACHINE CO.**  
3351 N. 35th St.  
Milwaukee 16, Wis.

## PLANT IT any time USE

**CRYSTAL No-Dri  
LIQUID WAX**

Used for over 20 years to reduce wilting and setback of transplanted broad-leaved and coniferous evergreens, deciduous trees, flowering shrubs, etc. Safe on plant tissue; paint or spray it. Extend transplanting and landscaping through hot weather.

55-gal. drum... \$63.25 30-gal. drum... \$37.50

5-gal. drum... \$7.25

All prices F.O.B. Philadelphia, Pa.

**CRYSTAL SOAP & CHEM. CO., Inc.**  
6300 State Road, Philadelphia 35, Pa., Dept. AM.

## BURLAP SHEETS AND SQUARES

cut and sewn to your specifications. Quotations and samples on request.

**STERLING BAG & BURLAP CO.**

41 Carolina St. BUFFALO 1, N. Y.  
Phone: CL. 2339

# Spring Cleaning Starts Now

## with **CRAG Herbicide-1**

Trade-Mark

Make your next spring-weeding easier by preventing chickweed and other winter annuals with CRAG Herbicide-1. Start now with a clean field and an application of CRAG Herbicide-1. Keep your field clean with further applications as needed even as late as October. This will prevent the weeds that germinate in the fall and keep on growing through the winter.

Don't let your weed control program stop in the summer, keep it up through late fall—you'll find it pays off by making your spring clean-up easier.


### **CRAG Herbicide-1**

Trade-Mark

is a product of

### **CARBIDE AND CARBON CHEMICALS COMPANY**

A Division of Union Carbide and Carbon Corporation

30 East 42nd Street  New York 17, N. Y.

"Crag" is a registered trade-mark of Union Carbide and Carbon Corporation.

else. There may be a small source of water present at this area, but by contour stripping and terracing the runoff water may be conserved and directed to this pond area for later use in times of drought.

The key to profit in any of our nursery crop ventures is successful crop growth, Mr. Orr continued. Many nursery crop failures are the result of an attempt to grow a certain crop on a soil which did not provide the conditions necessary for profitable crop yield.

If nurserymen are to maintain or increase the fertility of their soils and do it economically, they must know what these soils require before treatments can be applied.

The speaker recommended systematic soil fertility tests, which provide definite information about soil conditions and serve as logical guides to the formulation of soil improvement plans and practices.

Dr. L. C. Chadwick, department of horticulture, Ohio State University, expressed the belief that a well-developed crop rotation plan for nurserymen includes the use of sod, winter cover, green manure and companion crops alternated with or accompanying nursery stock. The length of time that it takes to produce a salable crop of nursery stock,

and the method followed in digging the crop are factors influencing the rotation adopted.

For nursery stock that matures in two years, green manure crops can be grown for a year between two nursery stock crops and then the land would be put down in sod for two years before the rotation is repeated.

Fertilization to the extent of forcing exceptionally rapid growth frequently does not result in the highest quality, Dr. Chadwick declared. A normal, uniform rate of growth is the most desirable.

The quality of the nurseryman's product is a factor that needs to be more closely scrutinized now than at any other time in history, he concluded.

#### **Propagation Discussion**

Tom Eden, instructor in horticulture, concluded the short course with a "Review of Fundamentals of Plant Propagation by Soft and Hardwood Cuttings." Mr. Eden said that no matter what method is to be used to propagate a given plant, the first point to be considered is the individual requirement of that plant. Few general rules can be given, because each species has its own characteristics. Starting with a



## **REX REED MATS**

**SAVE TIME, MONEY AND WORK**

Rex Reed Mats are ideal covers for lath houses . . . cold frames or hotbeds. They are equally useful as background screens in modern landscaping. Although sturdily made of selected lake reeds securely woven together, Rex Mats are lightweight and are easily rolled in a compact bundle. This means a real saving in labor and storage space. Write today for literature and prices.

Imported Nurserymen's Supplies  
Rex Peat Moss—Peat Moss Seedlings  
Pots—Wilt-Proof—Other Specialties.

**TRANS  SPHERE**  
**TRADING CORPORATION**

PO BOX 1564, MOBILE, ALABAMA



## MONARCH FOGGER



**Humidifies  
Without  
Excessive  
Wetting**

**\$1.75**  
each

Postpaid With Check

- Breaks up water into exceedingly fine fog.
- Operates on regular water pressure — 25 lbs. or more.
- Uses only 1 gallon water per hour.
- 1/8-in., 1/4-in. or 3/8-in. male pipe thread.

Write for detailed information including prices, specifications and installation diagrams.

DEALER INQUIRIES INVITED

**W. A. WESTGATE**

Monarch Spray Equipment

P. O. Box 445, Davis, Calif.

## WOOD LABELS

*For Nurserymen*

**DAYTON  
FRUIT TREE LABEL  
CO.**

Ray and Kiser Sts. DAYTON, O.

## POCKET MICROSCOPE

**#3 BILLION DOLLAR**  
loss each year in plant and fruit production caused by insect and plant diseases.

**HOW MUCH DO YOU LOSE?**  
YOU and YOUR HELPERS should have a pocket microscope ready for instant use in the study of scales, red spiders, mites, insects and fungi in fields, beds or greenhouses.

**ORDER NOW—BE SURE**  
Find your plant enemies.  
A FINE GIFT FOR A FRIEND  
20 power, \$3.50 (3 for \$9.00)  
40 power, 4.50 (3 for \$12.00)  
Postpaid. No C.O.D. Please.  
Money-back guarantee.

**JAMES A. VAN KLEECK**

Horticultural Consultant  
1242 WEBB RD. CLEVELAND 7, O.

**A. M. LEONARD & SON**  
PIQUA, OHIO

Knives - Shears - Pruning Tools  
Nursery Spades - Grafting Supplies  
WRITE FOR CATALOG

discussion of propagation by cuttings, Mr. Eden assigned the following reasons for the popularity of this method over the practice of grafting or the use of seeds:

1. It is an easy and rapid method of propagation as compared to grafting.
2. It produces plants like the parent plant.
3. Propagation by seeds may be impossible because of lack of seed production by the plant or for some other reason.

The speaker went on to say that many woody plants are propagated by softwood cuttings; that is, the cuttings are taken before the stem is mature. What characterizes them is not the type of parent plant but the immaturity of the part used. One necessary condition of softwood cutting propagation is that the plant from which they are taken be in vigorous health. Intense sunlight is disastrous to newly planted softwood cuttings. On this account it is necessary to shade the plants until they form roots.

### Hardwood Cuttings

Hardwood cuttings was the next topic Mr. Eden brought to the attention of the group. He said that hardwood cuttings are made from the ripe wood of the past season's growth or older wood, which in the case of deciduous plants will make no more growth during the season at hand. Mature or hardwood cuttings may be made at any time in fall, winter or early spring. With plants growing in the open the great majority are made for spring planting. No general rule governs the length of hardwood cuttings. For convenience of handling, cuttings are usually made from four to eight inches long. Whatever the kind of stem cutting, it should have at least two buds or nodes, one for the region of rooting and one for the top shoot or new plant aboveground.

Mr. Eden went on to tell about propagating equipment, mist propagation, sanitation, sterilization and transplanting. He brought his talk to a close with a discussion of anti-transpirants. He said that these retard water loss in plants and the chief advantages are as follows:

1. They reduce moisture loss when transplanting, lining out and propagating.
2. They help dormant stock retain moisture and vitality in storage and in later transplanting.
3. They will prevent winter burn on evergreens growing in exposed positions.

## NEW ROTPROOF Colored Burlap

The Answers to Your Treated Burlap Problems.

- Outlasts untreated burlap 6 to 8 times.
- Not oily.
- Clean, odorless.
- Noninjurious to plants.
- Will not harm or irritate handlers.

As an added feature, these squares may be had **COLORED** in **GREEN** or **RED**.

Write now for samples and low prices.

**AMERICAN-DUTCH  
TRADING CO., INC.**  
P. O. Box 177, CRANSTON 10, R. I.

**TWO PROFITABLE  
BOOKS  
FOR NURSERYMEN**  
**HORSE-SENSE  
HORTICULTURE**  
Retail for \$1.50

**YOU CAN LANDSCAPE YOUR  
OWN HOME** — Retail for \$1.00

Special introductory offer —  
1 of each \$1.50 postpaid.  
Descriptive Circulars Free.

**THE MINNETONKA PUBLISHING CO.,**  
400 Watertown Rd. LONG LAKE, MINN.

*You can't beat  
the Band*

**NEW  
CYPRESS PLANTBANDS**

- ★ WON'T STEAL YOUR SOIL NITROGEN.
- ★ LAST SEVERAL TIMES LONGER THAN OTHER VENEER BANDS.
- ★ MAKE POSSIBLE FASTER EASIER PLANTING.
- ★ MAKE THE PLANTING SEASON LAST A LOT LONGER

WRITE FOR FREE PLANTBAND FOLDER

**FORREST KEELING NURSERY** ELSBERRY, MO.  
**APPALACHIAN NURSERIES** WAYNESBORO, PA.

**GREENHOUSE AND NURSERY  
SUPPLIES**

**AMERICAN FLORIST SUPPLY CO.**  
1335 W. Randolph St. CHICAGO 7, ILL.

# WASHINGTON MEETING

[Continued from page 10]

knows is that he wants something green, something with flowers, and he suspects that he needs something to protect his \$1.25 investment. He may be a headache, but he represents opportunity because he is typical of 95 per cent of the potential customers. Nurserymen may resent invasion by grocery and other chain stores into the field of selling of nursery stock, but these firms know how to deal with persons who do not know one plant from another.

Cecil Solley stated that customers expect good public relations from nurserymen. They expect nurserymen to tell what good plants they have and how well the plants grow. Also, customers expect the nurserymen to do something about the other fellow's bad advertising.

Mr. Solley chided the nurserymen present for not giving advance information to newspapers about plants which they wish to promote. He stated that the three panelists, by virtue of their occupations, reach many thousands of persons by radio and television and through the newspapers. Yet, he stated, rarely does a nurseryman supply information to them for use in their columns or talks.

## Panel on Advertising

The second panel discussion of the afternoon dealt with advertising and was led by Bryan Taylor, Taylor Nurseries, Seattle. His remarks were reinforced and augmented by radio, television and newspaper advertising experts. All of the panelists emphasized the tremendous market potential the future holds for dealers in plants and garden materials.

Among the most pertinent points of the discussion was that nurserymen, in their advertising, should "sell the sizzle—not just the steak." Just as the delectable, mouth-watering aroma of the broiling steak is the thing that causes response to a steak advertisement, so it is the loveliness and colorfulness of the flower or bush which sell the plant and should be described in advertisements.

One of the speakers emphasized the need to plan ahead on advertising, not merely attempt to beat the deadline. It was pointed out that a department store plans its advertising for an entire year, then breaks it down into quarterly periods and finally into shorter periods related to seasonal merchandise. As a result, the stores are always driving toward a goal. They benefit from a planned program, and nurserymen



**YORK  
RAKE  
MODEL RE**

**DOES ALL THESE JOBS, SAVES  
USING EXTRA EQUIPMENT!**

*Use it for*

- 1 REMOVING STONES
- 2 REMOVING BRUSH, ROOTS AND DEBRIS
- 3 SPREADING TOP SOIL
- 4 GRADING, LEVELING AND MULCHING
- 5 BULLDOZING
- 6 DITCH MAINTENANCE AND TERRACING

• YORK RAKE (Model RE) at work on lawn grading project. Large stones have been removed, and soil is being readied for seeding.

• With only the YORK RAKE (Model RE) and a tractor, landscape gardeners and contractors now can perform most lawn building operations, up to the actual seeding. The Rake takes the place of several other pieces of mechanical equipment, as well as eliminating most hand labor ... and pays for itself in a short time.

• The YORK RAKE is built for use with all tractors equipped with 3-point hitch, such as Ford, Ferguson and numerous others. It's a highly versatile tool ... removes stones, roots, brush, debris ... spreads top soil ... does a finished grading job ... leaves an ideal bed for seeding. It also can be used as a bulldozer, and for ditch maintenance and terracing operations.

• Rugged construction assures trouble-free operation. Long wearing teeth are made of heat-treated alloy spring steel, rigidly attached to high carbon spring steel bars. Working width is adjustable from 6 ft. to 8 ft.

Optional Attachments (Caster Wheels, Grader Blade and High Lift) available at extra cost.

For complete details and prices write Dept. AN-154



**YORK**  
MODERN CORPORATION  
UNADILLA, NEW YORK

"Pure Sphagnum" ORGANIC

## Fafard PEAT MOSS

PROVEN SOIL CONDITIONER

**HIGHLY ABSORBENT**

MAKES SANDY SOIL MORE COMPACT - LIGHTENS HEAVY CLAY SOIL - CLEAN AND FREE FROM WEED-SEEDS AND DISEASE SPORES

**STIMULATES GROWTH AVAILABLE IN BALES, BAGS, BOXES**

PREVENTS LEACHING AND WASTE - IMPROVES AERATING - ENCOURAGES BENEFICIAL BACTERIA - LASTS LONGER IN THE SOIL

**WRITE, WIRE, CALL US TODAY, LONGMEADOW 7-3316**

**CONRAD FAFARD Inc., P. O. BOX 774(A) SPRINGFIELD, MASS.**

## HAND TRUCKS

Especially built for handling  
B&B nursery material. Are  
built in three sizes, with  
capacity up to 1500 lbs.

Illustrated is our small  
model truck. One man  
can easily handle 600-lb.  
ball.



Write for folder giving details and prices.

### THE GARDEN SHOP, Inc.

6315 West 75th St.

Overland Park, Kansas

Phone HEdrick 3288 (Kansas City, Mo., exchange)

## ROPER- POST HOLE DIGGER



FULL YEAR  
GUARANTEE

plant heavier, wider trees  
and shrubbery with the  
**EXTRA-WIDE 18 to 24-in.**  
diameter digger

Works perfectly in shale, stony  
clay, sandstone, any tough soil.  
Easily installed by one man in 5 minutes;  
fits any jeep or tractor. Cuts planting and  
transplanting time way down.

NO SWING OR SWAY . . . Stays rigid while  
digging . . . digs straight or at any angle,  
adjustable for hillside digging.

NO WOBBLING or breaking . . . Safety  
shear pin is at universal and is easily re-  
placed in field.

Write for free infor-  
mation and name of  
nearest dealer. FULL  
YEAR GUARANTEE  
on all parts and  
workmanship . . .

DEALERS—DISTRIBUTORS—WRITE!  
SOME TERRITORIES AVAILABLE

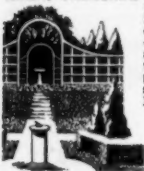


## EARN HIGHER PAY

### • BECOME A LANDSCAPE GRADUATE

Men and Women! Study at home in your spare time. In 8 to 12 months  
YOU can be a successful landscaper! Healthful, pleasant, satisfying  
work in an uncrowded profession.

American Landscape School offers specialized training in Landscape Design, Horti-  
culture, Construction, Superintendence, Drafting, Salesmanship and Office Prac-  
tice, Mapping and Field Work, Garden Design. 45 generously  
illustrated lessons. Prepared by Francis A. Robinson, late presi-  
dent of American Landscape School. Active professionally for  
42 years. Mr. Robinson achieved prominence as a landscape  
architect with his plans for the World's Fair in Philadelphia,  
various colleges and universities, many state fairs, expositions,  
parks, and remotes coast to coast. Free lifetime consultation  
service. 38th year. Successful graduates throughout the world.  
Mail coupon today for FREE illustrated catalog.



J. L. Moreau, Jr., of N. J., says: "The time and  
money I spent on the course has paid for itself  
many times over. It advanced the organization of  
my own business by several years."

AMERICAN LANDSCAPE SCHOOL

6728 Grand Ave., Des Moines 12, Ia.

Please tell me how I can increase  
my income as a landscaper.

Name .....

Street .....

City .....

State .....

should consider similar advance ad-  
vertising planning.

Bryan Taylor called attention to  
the 50-foot-long display of news-  
paper clippings on a wall of the  
meeting room. The clippings were  
from almost every daily and weekly  
newspaper in the state and were a  
result of the campaign by the ad-  
vertising staff of Balls & Burlaps,  
the Washington State Nurserymen's  
Association magazine. Press releases  
on plant material and growing ad-  
vice were sent through the state each  
week, and these releases have proved  
excellent public relations, due to  
the credit of the Washington group.

The afternoon session closed with  
an invitation to the members to visit  
the commercial displays.

### Banquet Held

A banquet was held in the Uni-  
versity room in the evening. Tables  
were gay with favors made by Helen  
Clohesy, Richmond Nurseries, Rich-  
mond Beach. The favors consisted of  
miniature trees, shrubs and flowering  
plants in simulated burlap wrap  
mounted on a cedar slab. An appre-  
ciated touch was a "sold" tag at-  
tached to each plant.

Highlight of the convention was  
the presentation of a gold wrist  
watch to Vic Mix, convention chair-  
man, who was chosen "Man of the  
Year" for his efforts at making the  
convention a success and his untir-  
ing leadership. John Strander and  
Stanley Walters were also given  
wrist watches as first and second-year  
recipients of the "Man of the Year"  
award.

Mr. Strander introduced the mem-  
bers of the Balls & Burlaps staff and  
traced the growth of the publication  
from the time when its circulation  
was 550 to its present circulation of  
2,069, and from its three mimeo-  
graphed sheets to its 32 lithographed  
pages. Esther Gilbert, production  
manager, was awarded a watch for  
her excellent work.

### Mayor Starts Second Day's Session

Seattle's Mayor Allan Pomeroy  
extended the city's greetings to the  
morning assemblage, as nurserymen  
convened for the second day of their  
convention. The mayor's talk called  
attention to the continuing growth  
of the city.

Officers' reports were read and the  
election was held, after which Paul  
A. Mayer, chairman of the legisla-  
tive committee, read a report signed  
by Mr. Mayer and his fellow com-  
mittee members, Stanley Walters,  
Don Henson, John Snyder and  
Harry Post.

The committee made the follow-  
ing recommendations:





"Good Business" is the art of making a profit from your operation. Profits are made by either increasing income or cutting costs. A Royer Compost Mixer will be a big help both ways. Flowers and plants fed with rich, properly prepared Royerated compost are strong and healthy, . . . readily saleable at top prices. But it is the cost cutting feature that is most important. Because this efficient machine will produce compost in about 1/8th the time needed by manual methods you reduce your labor costs by 89%. Long after the dollar savings have paid off the original investment they will continue to help you operate at a profit. Investigate this "Good Business" deal . . . write for Bulletin 46 giving complete details.

## It's Just "Good Business" to Buy A ROYER



**ROYER foundry & machine co.**

182 PRINGLE ST., KINGSTON, PA.



1. That the present Washington state grade laws pertaining to hardwood nursery stock be enforced by the Washington state nursery inspection service.

2. That all horticultural advertising in any advertising media state grade and size of nursery stock offered for sale or else definitely identify it as ungraded; that all advertising of nursery stock conform with the standards adopted by the American Association of Nurserymen and the better business bureau and conform with standards of advertising adopted by the federal trade commission, and that these regulations be applied equally to resident and to out-of-state advertisers in the state.

3. That all sales of hardwood plants be recorded and the purchaser of such nursery stock be given a copy of the sales slip.

4. That all collected plants offered for sale be advertised and plainly marked "collected material."

5. That all plant material arriving in the state of Washington in a dead or dying condition be rejected by the state nursery inspection service.

6. That the license fee for dealers be raised to \$25.

7. That the license fee for growers, where no nursery stock is handled for resale, be \$10.

8. That the license fee for agents be \$10.

9. That licenses issued to dealers be limited to those who have a definite place of business. No mobile licenses should be granted.

The committee report included quoted reactions of other nurserymen's associations and flower and bulb growers' groups, all of which endorsed the objectives of the W. S. N. A. legislative committee approximately 98 per cent.

Mr. Mayer asked for an appropriation of not less than \$250 with which to hire legal advisers to write the recommendations in a form suitable for presentation to the state legislature. This was unanimously granted, and Mr. Mayer and his committee were instructed to proceed with the work on these important matters.

### A. A. N. Chapter Meets

Chapter 28 of the American Association of Nurserymen met on the afternoon of August 17, with a closed business session, after which the meeting was thrown open, with Stanley Walters, president, presiding.

Harold Hopkins was unanimously elected as vice-president to complete the unexpired term of this office.



## Still the CHAMPION KNAPSACK SPRAYER for WEEDS and PESTS

Year after year, with consistent improvements in design and in operation, Champion Knapsack Sprayers have maintained their leadership in performance, quality and long life. There is a model to meet every need for a portable sprayer with unusual power, easy operation, constant agitation of the liquid, economical control of solution . . . all at low cost.

Write for literature

**CHAMPION SPRAYER CO.**

Mfrs. Portable Sprayers and Dusters  
6507 HEINTZ AVE. • DETROIT 11, MICH.



## FAST, EFFICIENT ROSE TYING with SAXMAYER MODEL EM!

A small, fully automatic, electric bench model tying machine—self-adjusting to all sizes of bundles—especially designed for tying flowers and nursery stock in bundles up to 16 ins. in circumference. It's lightweight, so simple in construction even a child can operate it. Write for illustrated folder describing SAXMAYER models serving over 100 different industries.

## ALSO—NEW MODEL SRAN NOW READY

### Special Features:

- Ties shrubs and trees up to 6 to 8 ft. long by 36-in. circumference.
- Uses jute or sisal twine—fully guaranteed.

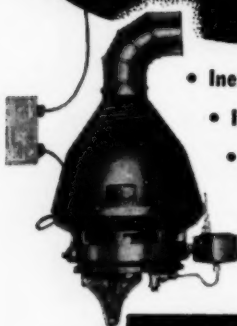
- Automatic safety release to protect machine and operator.
- Ruggedly built, all-metal construction—speedy.

Many now in operation by enthusiastic owners.

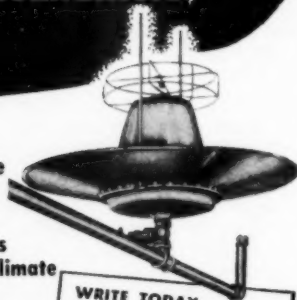
—Write for Details—

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## SHIPPING PERENNIALS

[Continued from page 17]

duces the possibility of losses which might be sustained as a result of heating in the center of the box. Once the contents have been cooled, the temperature of the storage can be raised to 28 to 29 degrees F. for holding.

As stock is required for spring shipments, enough of it to keep wrappers busy over a particular run, or enough for two or three days' shipping, is slowly thawed. Although the plant material stored under these conditions is not frozen "solid," there is the need for at least a 12 to 24-hour waiting period before packaging for shipment. Inasmuch as the packing crate has been fitted with an inner paper liner, which insures a gradual thaw, a heavy tarp thrown over the top of three or four crates placed in common storage (running at a temperature of 55 to 60 degrees F.) will provide adequate protection for this intermediate step. Earlier in the spring, when temperatures are lower, a gradual 3 to 4-day thawing period in storages running between 35 and 40 degrees F. is suggested as the best method.

### Packaging Perennials from Storage

After thawing the plant material can be sorted and graded, if late fall operations did not permit extensive handling prior to storage. It is recognized that in the general nursery operation, perennial materials grown under irrigation and taken to the packing shed are not uniform as to size. However, under such conditions the size differences are not so great as to discourage field-run crating of most perennial materials, provided a once-over gross inspection has been made to eliminate culls. Necessary trimming and division can be done easily just prior to packaging.

The plant material is now ready for packaging. As was discussed in an article in the August 15 issue of the American Nurseryman, a general recommendation singling out the best method of packaging for any one particular class of perennials is difficult. However, based on general observations, perennial materials which have been held in refrigerated storages until a time immediately prior to shipping can best be packaged for mail-order shipment in a sealed polyethylene bag, overwrapped with 40 or 60-pound kraft. This procedure is recommended only for perennial material which is dormant, without new growth, and which does not have excess free moisture on the

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roots, crowns or old leaves. It has also been noted that materials which were allowed to remain in order-filling bins at room temperature for any length of time and which consequently required the addition of moisture to prevent drying often were the plants which showed the most mold development after packaging and shipment. This is an important consideration.

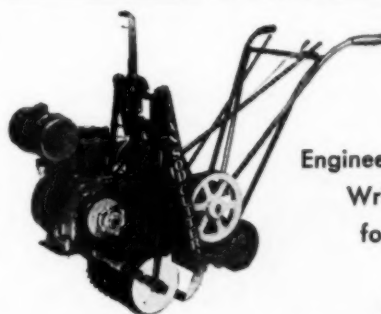
#### Perennials in Common Storage

For packaging greentop perennials such as carnations, purple bellflower and Shasta daisies, which have not been frozen, or which are just showing forced growth, the use of an open polyethylene bag overwrapped with kraft (tops open) is suggested. Again it should be emphasized that plants which have been spring dug and which show definite signs of growth are the most difficult and touchy types to hold and package. If plants must be shipped in this condition as much precaution as possible should be taken in order to maintain a separate environment for each plant part; i.e., the root system should be in a closed unit while the leaf area is allowed to remain open at the top, although bounded on the periphery by the polyethylene bag. If forcing material such as this is placed in a

## Ryan

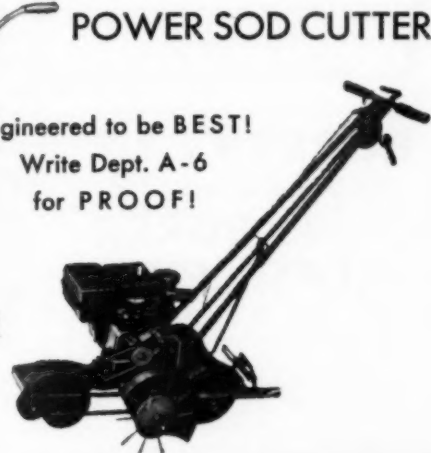
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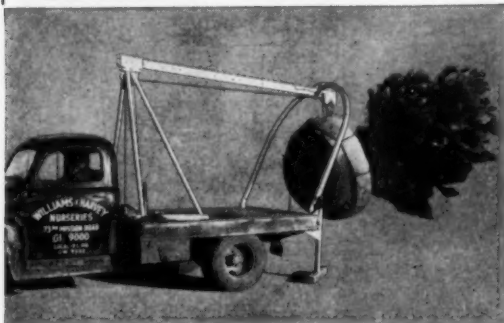
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sealed bag, without a crown division, moisture loss, as a result of normal transpiration accompanied by high temperatures and poor aeration, will add to the rapid deterioration of the entire plant.

Another precaution which should be observed in packaging greentop perennials involves the location of this crown division. After the plant has been placed in the polyethylene bag and the kraft has been wrapped around the outside of the package it is imperative that the crown tie fall in a position as close to the base of the crown as possible. With the package tied at this location, the bundle can be cinched tightly, thereby dividing the package into two separate compartments.

If the tier accidentally places a string around any portion of the leaf and in the process of tightening bruises or crushes even a small portion of the structure, secondary mold and rot activity will rapidly develop to render the product unacceptable. In our shipping studies we have observed that mold activity originates or is associated with any broken or crushed plant part. In many cases mold activity may not be of such a nature as to cause the death of the plant, but its presence in any amount is often a cause for complaint by critical customers.

The wrapping procedure for spring-dug or forcing root and crown perennials such as delphinium, hollyhocks and hibiscus involves the same general techniques and precautions as used to package greentop types. A slight saving in the shipping cost can be realized on small orders by the use of a polyethylene root bag which covers only the root and crown portion of the specimen. The usual over-all 60-pound kraft covering will provide the package with adequate protection under normal shipping conditions.

## Shipping Plants in Active Growth

At this point we should again consider a statement made earlier to the effect that as far as the mail-order nurseryman is concerned there is no substitute for prompt shipping. This statement applies only to spring-dug perennials or perennials which have not been held in a freezing storage until time of shipment. In other words, any plant material which has visibly started to grow is going to be difficult to package and ship to a distant market.

The normal tendency for a plant to continue to grow, and in so doing to require increased amounts of water, light and air in order to

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carry on normal respiration and photosynthetic processes, completely modifies the applied packaging method. Whereas plant material which has been held completely dormant until the time of shipment can be satisfactorily shipped in a sealed polyethylene bag after thawing, the forcing perennial must be provided with an open top, which allows it to function normally for the short period of time during transit.

Material which is breaking bud at the time of shipment has still another strike against it if shipped late in the season. It is true that in an early run, as between April 15 and May 15, the customer may receive the forcing material in perfect condition and the chances are better than 80 per cent that it is going to live, even if it is not cared for after planting. At this season of the year soil temperatures are not high, rainfall is generally optimum and the air is not hot and dry. However, if these same plants, in as good condition as they were in April or May, were received by the same customer in mid-June and he failed to take care of them after planting, the chances of securing a good stand would be small, although existing weather conditions would govern to some degree the over-all plant stand. Fortunately for the nurseryman, however, the average customer who has taken enough interest in plant materials to purchase them usually will be sure that they

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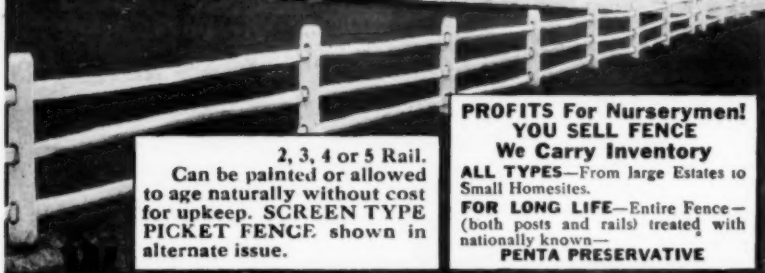
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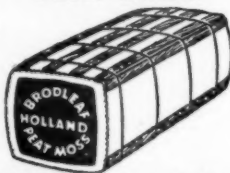
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are handled properly after planting.

This particular point has been emphasized in order to distinguish between methods of packaging plant materials in two distinct stages of growth, as well as to stress the point that survival in the customer's yard or garden is also a function of environment and care. I believe nurserymen are generally agreed that complaints on quality and requests for replacements are more numerous in the case of late shipments than in the case of early spring runs.

### Prepackaging Perennials

This now brings us to an entirely new concept in perennial handling, that of prepackaging. The idea, of course, is not new, in that fruits and vegetables have been prepackaged for many years for the produce sections of supermarkets. Through limited experimentation and with the assistance of George Rose, of Henry Field Seed & Nursery Co., Shenandoah, Ia., we are able to report preliminary findings on this new method of handling perennial materials. Since freezing storages are particularly successful in keeping this type of material over winter, the nurseryman can use this innovation in the prepackaging scheme.

In order to determine the best method of storing and packaging perennials for the prepackaging technique, representative perennial types were placed in both sealed and open polyethylene containers under three storage environments available at the Henry Field Seed & Nursery Co. Each plant was placed in a separate bag or sheet of polyethylene as the material was sorted and worked over in November and December. The packing crates were lined with a thin sheet of waxed paper before the packaged plants were crated. Complete sets of open and sealed packages of Shasta daisy, Canterbury bell, foxglove and gaillardia were placed in the following storage environments: (1) Freezing storage (28-29 degrees F.), (2) a cold room (34-40 degrees F.) and (3) common storage (50-65 degrees F.). The remaining plant types, generally packaged in sealed film, were placed in comparable crates and placed in the three storage units.

On March 18 and again on July 28, all plant materials were graded, using the following criteria: (1) Keeping quality, (2) general plant appearance, (3) presence of mold, (4) the need for trimming and (5) the presence or absence of etiolated, forced growths. The method of evaluation expresses the condition of the plant material from the stand-



point of the prospective customer; for that reason it is extremely critical. Many of the individual treatments that received a low rating could not be considered worthless, inasmuch as a light trim would render the products marketable. The over-all trend, however, of the various perennial types can be followed from this preliminary study. Ageratum, lily of the valley and balloon-flower, for example, can be stored in sealed polyethylene bags with good success under any of the storage treatments utilized. Consequently, plants of this type need not be held in freezing storage, a situation which permits more space in the freezer to be used for the handling of types more difficult to store.

Such perennials as coreopsis, pyrethrum and cornflower aster proved difficult to handle under any of the prevailing methods of packaging and storage and therefore require additional experimentation in order to determine the best methods to employ.

### General Procedure

As dictated by this preliminary trial it is obvious that a general procedure for handling most perennials as prepackaged items is available for testing. As the plants are dug in the fall of the year, they can be brought in from the field and stored in a cool location. It is essential during this period that the plants not be stacked deeply or be allowed to heat. As soon as possible the material should be worked over, sorted, divided and trimmed. The perennials can then be placed in either a sealed or open polyethylene tube, depending on observations of keeping quality. Inasmuch as polyethylene melt seals at temperatures of from 217 to 221 degrees F., ordinary cellophane sealing devices, as such, are not adapted to the prepackaging operation. Consequently, commercial bar-type or roller-type sealing equipment, spray coated with Teflon, should be used. Twist-Ems or staples can also be applied to the package if small numbers of units are to be run. After the plant has been packaged as an individual unit it can be placed in the storage crate, which has been previously lined with a thin sheet of waxed or nursery paper. The crate, after it has been filled, is then either frozen or placed in cold storage to await the spring shipping rush.

As has been the case with older methods of storage, improved methods of handling do not substitute for quality. If the plant material has been grown and harvested under

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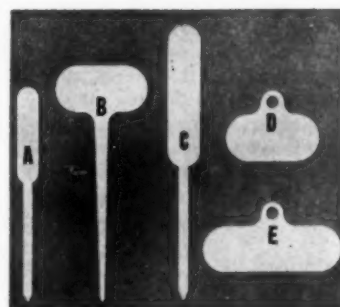
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optimum conditions it will generally store and ship in better condition than material handled haphazardly. This is especially true of the prepackaging sequence just described: it is essential that the plant material not be in an active, succulent stage of growth and not have any excess moisture adhering to the root or leaf surfaces. If in the normal fall digging operation it is impossible to lift stock that is totally dried off it is suggested that care be taken to dry the plant prior to prepackaging. It is believed that excess moisture, packaged with the plant, contributes to the rapid loss of quality, not during the storage period but after the package has been removed from storage and has been processed.

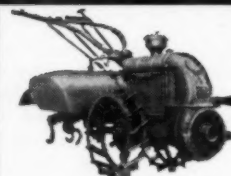
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Recommended for trial for Chlorosis of Azalea, Gardenias, Citrus, Roses and similar plants.

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1 or 2-lb. bags.....\$2.00 per lb.  
10-lb. drums.....1.50 per lb.  
50 or 100-lb. drums.....1.10 per lb.

Usually applied at rate of ½ to 1 oz. per 100 sq. ft..

DIRECTIONS ON LABEL

\*Contains "Sequestrene" Brand

**EDCO CORP.**

ELKTON, MD.

**You can load right now...**



**scarify 30 seconds later**



**with a Ford Tractor and Dearborn Equipment**

Here's a low cost way to speed completion of residential construction. And it's a sure way to impress prospective buyers, too! First, clean up lumber scrap and surface trash with the Ford Tractor and the—

**DEARBORN INDUSTRIAL LOADER**

With this team you can lift 1000 pounds . . . clear 10½ ft. to load high-bodied trucks. It's easy to operate—highly maneuverable. Nine cubic foot bucket is controlled by twin hydraulic cylinders.

Because the Industrial Loader has its own separate hydraulic system, Ford Tractor hydraulic power is free to operate rear attached tools. So, when everything is cleaned up, just touch a lever and lower the—

**DEARBORN FIELD CULTIVATOR (Spring-Loaded Scarifier)**

Now you're ready to give your job extra appeal that will interest more buyers—maybe turn the sale! Just once over the ground with this Dearborn tool and you break up hard-packed soil. This means easier seeding and thicker stands of grass later on . . . a neater, cleaner landscape right now. Working depth is hydraulically controlled. Spring-loaded shanks slide easily over hidden rocks without breaking.

This is one way the Ford Tractor can help you get extra profit from every job—extra time, labor and equipment savings every day. And there are many more. To find out about them, see your nearby Ford Tractor and Equipment Dealer, or write to the address below.



TRACTOR AND IMPLEMENT DIVISION, FORD MOTOR COMPANY  
Birmingham, Michigan





# JUNIPER GRAFTS

Hill's Prestaked Grafts continue to be in great demand. Our production schedule cannot be increased beyond the capacity of last year.

If you are one of those who were disappointed this past spring—Order Now!

**Juniperus Chinensis Ames**  
(Ames Juniper)

**Juniperus Chinensis Columnaris**  
(Column Chinese Juniper)

**Juniperus Chinensis Iowa**  
(Iowa Juniper)

**Juniperus Chinensis Keteleeri**  
(Keteleer Juniper)

**Juniperus Chinensis Maney**  
(Maney Juniper)

**Juniperus Chinensis Mountbatten**  
(Mountbatten Juniper)

**Juniperus Chinensis Pfitzeriana Glauca**  
(Blue Pfitzer Juniper)

**Juniperus Chinensis Sargentii Viridis**  
(Green Sargent Juniper)

**Juniperus Communis Depressa Aurea**  
(Golden Prostrate Juniper)

**Juniperus Communis Depressa Vase Shape**  
(Vase-shaped Prostrate Juniper)

**Juniperus Procumbens**  
(Japanese Juniper)

**Juniperus Procumbens Nana**  
(Dwarf Japanese Juniper)

**Juniperus Sabina Horizontalis No. 3**  
(Russian Savin Juniper No. 3)

**Juniperus Sabina Horizontalis No. 4**  
(Russian Savin Juniper No. 4)

**Juniperus Scopulorum Silver Glow**  
(Silver Glow Juniper)

**Juniperus Squamata Meyeri**  
(Meyer Juniper)

**Juniperus Virginialis**  
(Hillbush Juniper)

**Juniperus Virginialis Globosa**  
(Globe Hillbush Juniper)

**Juniperus Virginiana Canaerti**  
(Canaert Juniper)

**Juniperus Virginiana Cupressifolia**  
(Hillspire Juniper)

**Juniperus Virginiana Glauca**  
(Blue Juniper)

**Juniperus Virginiana Hilli**  
(Dundee Juniper)

Each per 100  
**75¢**

Each per 1000  
**65¢**

250 or more at the 1000 rate

## D. HILL NURSERY CO.

Evergreen Specialists

Largest Growers in America

DUNDEE, ILL.